Construction News

Demand that Aliens Quit New York Subway

Stoppage of work on New York's entire rapid transit system, thereby throwing 18,000 men out of work, is threatened by the action of the Bricklayers' Union in resurrecting a long forgotten clause of the labor law, which states that only citizens of the United States may be employed on municipal work.

The following is a letter which John Gill, business agent of the Bricklayers and Masons Union, has sent to all subway contractors:

"I beg to notify you that your company and all subcontractors doing work are openly and wantonly violating the labor law of this state with regard to employing men on your work who are not citizens of the United States, and with regard to paying laborers and tradesmen wages less than the prevailing rate; also, with regard to complying with the labor law, which requires that the contractor shall keep the name of each workman, and if a naturalized citizen, the date of citizenship and the court out of which his papers were issued.

"I hereby demand that you make a thorough investigation among your employees, with the advantages at your disposal, to ascertain the above facts. I desire to further notify you that these violations are open and notorious and conducted by you to such an extent as to be a matter of common knowledge.

"In the event that you fail to comply with the law forthwith, I shall take whatever steps, as a citizen and as a representative of organized labor, to prosecute you for such violations, as I deem necessary."

The Public Service Commission has made a statement which says, in part:

"The penalties prescribed for violations of the law include not merely the forfeiture of the contract, but also the punishment of offenders for misdemeanor. It is also said that if the Public Service Commission should countenance such violation its members would be liable to prosecution for malfeasance."

In an interview, Chairman McCall, of the Public Service Commission, said: "The commission is obliged to enforce the law. As to whether or not it is unconstitutional, I can only say that we have no authority to interpret the law ourselves. We would not be justified in paying vouchers if we were aware of violations, and I doubt if the comptroller would recognize them if we did issue them. We are considering steps to test the law as quickly as possible."

That 90% of the pick and shovel men are aliens is admitted by the contractors. They say they can't get native Americans to do this work. Even among skilled laborers the percentage of aliens is large Some contractors have laid off a part of their forces pending legal advice.

Opening the Federal Reserve Bank—Important at any time, but doubly so now, since the financial centers of Europe have been shaken to their foundations and foreign credit severely dislodged, was the opening of the Federal Reserve Bank on Nov. 16. The credit and financial interchange of the country for more than a generation has been carried on through a loose organization of more than 7500 national banks, many state banks, and trust companies. The national banking system, which was purely a measure put forward at the time of the Civil War, to facilitate the sale of government bonds, has been antiquated for more than a score of years Great hopes are held that the new system of credit interchange, with proper Federal control and supervision of business men, will free the country from the yearly financial stringency during the period, August to December, incident to the gathering of the crops. The United States having the largest store of gold in the world, has made little scientific use of this vast hoard for the promotion of credit. The new system, which began last Monday, comprises twelve reserve banks located in Boston, New York, Philadelphia, Cleveland, Richmond, Atlanta, Chicago, St. Louis, Minneapolis, Kansas City, Dallas and San Francisco. The bank in New York, which like all other Federal Reserve Banks, does business only with other banks, received over $100,000,000 the first day. The first receipt given out was for $21,000,000.

The Government to Aid Manufacturers—On July 15, Congress appropriated $100,000 for commercial attaches, to be appointed by the Secretary of Commerce, to investigate and determine whereby the sale of manufactured goods and raw materials from the United States, might be extended in foreign lands, such commercial attaches to report directly to the Secretary of Commerce. This plan was promoted prior to the beginning of hostilities in Europe, and also before there was any knowledge that foreign markets would be open to the United States as the result of war. While the war has of necessity changed the time for sending these attaches to the various countries, they will be more valuable as trade scouts now than was before thought possible. According to the bill in Congress, the number was limited to ten, and of these nine have already been appointed and assigned as follows:

A. H. Baldwin, to London, England; Erwin W. Thompson, to Berlin, Germany; Dr. Albert Hale, Buenos Ayres, Argentina; C. W. A. Veditz, to Paris, France; Julean H. Arnold, to Pekin, China; Prof. Lincoln Hutchinson, to Rio de Janeiro, Brazil; A. I. Harrington, to Lima, Peru; Verne L. R. Havens, to Santiago, Chile; and Henry D. Baker, to Petrograd, Russia.

The Platinum Output of the United States in 1913 was about 1034 oz., according to the U. S. Geological Survey. About 650 oz. was recovered from gold and copper bullion was made. The production of the country from imported sands was 39,154 ounces.

Orders for War Materials Placed in the United States

Manufacturers in the United States have secured much business from the belligerent nations for war materials. A large steel company has orders enough to tax its facilities for a year, and there are many smaller orders, as follows:

The Baldwin Locomotive Works, Philadelphia, Penn., has begun work on the recent order from the Russian Government for 30 locomotives.

An order for 25,000 steel barrels for export has beeen placed in Cleveland, while an export house in New York states that it has been figuring on an inquiry for 50,000 steel barrels for Russia. High freights have been a stumbling block, deterring the quick closing of orders.

The Firth-Sterling Steel Co., Demmler, Penn., has received an order for 20,000 three-inch, 10,000 six-inch and 5000 eight-inch shells, while the Economy Cartridge & Fuse Co., of Pittsburgh, has an order for 5,000,000 rounds of Mauser rifle ammunition. A New England manufacturer of ammunition early in the war received an order for 50,000,000 rounds of ammunition.

The Pittsburgh Gage & Supply Co. has received an order for $50,000 worth of wire rope, chains and fittings, while the Maccomber & White Rope Co., Chicago, has received a similar order amounting to $47,000. These materials will be used by the Studebaker Wagon Co., South Bend, Ind., in connection with a $6,500,000 order from the English and French governments for wagons and harness.

Important Electrification Contract

Announcement has been made that the Chicago, Milwaukee & St. Paul R.R. will start active work on the electrification of 450 miles of main line in the spring. A contract involving $2,000,000 has already been entered into with the General Electric Co. While the work involves a substitution of motive power on 450 miles of line (see "Engineering News," Jan. 16, 1913), only 117 miles are involved in this contract. The work will include the mountain district between Avery, Idaho, and Harlowton, Mont. This work is under the supervision of C. A. Gooodnow, Asst. to A. J. Earling, Pres.

Rapid Transit Line Held Up—The Public Service Commission for the First District announced during the week that it had failed to legalize the Flushing route, known as Route No. 52, by the filing of the necessary number of property owners' consents. This route is an extension of the Corona, Queens Borough, route from Alburtis Ave. through Flushing to Bayside. The Long Island R.R. Co. owns sufficient property along a portion of the route to control the majority of consents, which must represent a majority in value, in this particular vicinity. The railroad company refuses to sign the necessary consent. The Commission now has under consideration the adoption of one of the following ways of getting around the difficulty: It may go to the Appellate Division, which may give its consent to the building of the line in lieu of the property owners' consents; or it may adopt two new routes, which, taken together, would be identical with the present route, and the first route, which is for immediate construction, would extend from Alburtis Ave. to Main St., Flushing, and the other the rest of the distance. The Commission considers it probable that it will secure sufficient consents for the building of the Flushing line.

The National City Bank of New York has been granted permission by the Government of Argentina to establish a branch at Buenos Aires. This will be the first branch of an American bank to be opened on foreign soil. The bank will be managed by John H. Allen, former manager of the Bank of Hayti. A. V. Edwards, of the credit department of the National City Bank, is expected to arrive in Buenos Ayres within the next week, to have charge of the formation of a credit bureau to be organized in connection with the branch for the purpose of furnishing credit information to exporters and importers.

Iron Ore in the Philippines—The Philippine "Journal of Science" reports that H. F. Cameron, department engineer for Mindanao and Sulu, has discovered a deposit of iron ore in Surigao province on the island of Mindanao, which appears to be of large extent, probably covering an area of 40 square miles. The ore is a clayey red limonite, carrying 55 to 60% metallic iron; no sulphur or phosphorus, but traces of chromium. The area over which the deposit extends has been reserved from mineral location, by order of the government, until further information can be obtained as to the extent and value of the deposit, through surveys to be made by the Bureau of Science.

READERS' WANTS

The Department of Public Works, Detroit, Mich., George H. Fenkell, Commissioner, would like to receive information from firms manufacturing receptacles suitable for the storage of garbage, refuse and ashes. The department contemplates the enforcement of ordinances relative to the storage of such materials, preparatory to their being removed by the Department. The Commissioner would also like to receive cuts, specifications and prices.

CATALOG NOTICES

The Marion Malleable Iron Works, Marion, Ind. Catalog. Shoes for wood stave pipe. Illustrated, 136 pp., 4½x7 in.

David Lupton's Sons Co., Philadelphia, Penn. Catalog No. 8. Steel sash, partitions, doors, sash operating device, etc. Illustrated, 84 pp., 8½x11 in.

Eureka Machine Co., Lansing, Mich. Catalog. Concrete and mortar mixers. Illustrated, 32 pp., 7x10 in.

RAILWAYS

New York—Recurrent rumors are made that William K. Vanderbilt, Grand Central Terminal, New York, N. Y., is interested in the construction of a railway on Long Island. It is proposed to use the right-of-way of the Long Island Motor Parkway. This report is again denied, moreover from a business standpoint it is impracticable.

North Carolina—Elkin & Allegheny Ry.—This company is planning to resume construction work on its 35-mile line from Elkin, N. C. C. B. Penney, Elkin, N. C., is Gen. Mgr.

Louisiana—Pontchartrain R.R.—Plans are being prepared by this company to electrify its line from New Orleans to Milneburg, La. Charles Marshall is Pres.

Michigan—Frank J. Stevens, Missaukee, Mich., is interested in the construction of a railway from Lansing to Charlevoix, Mich.

Northwestern R.R.—See item under Wisconsin.

Wisconsin—Northwestern R.R.—The Heinemann Lumber Co., Merrill, Wis., has arranged with this company for the construction of a railway from Cisco, Mich., to Mercer, Wis., about five miles.

Minnesota—Minneapolis, St. Paul & Sault Ste. Marie Ry.—Preliminary arrangements are being made by this company for the construction of its proposed railway from Crosby to Ironton, Minn. C. N. Kalk, Minneapolis, Minn., is Ch. Engr.

Kansas—Atchison, Topeka & Santa Fé Ry.—According to press reports this company is preparing to double-track its line from Hutchinson to Mission, Kan., about 30 miles. R. A. Rutledge, Topeka, Kan., is Ch. Engr. Eastern Lines.

Texas—Glen Rose & Walnut Springs Ry.—Preliminary arrangements are being made by this company for the construction of a 14-mile line from Glen Rose, Tex., to Walnut Springs. F. B. King, Glen Rose, is Gen. Mgr.

California—Nevada, California & Oregon Ry.—This company will extend its line from Ravendale, Calif., to the Surprise Valley. R. M. Cox, Reno, Nev., is Gen. Mgr.

Alberta—Canada Central R.R.—This company has applied to the Alberta Government for permission to build a railway from a point near Round Lake, Alta., to Grouard, Alta. J. D. McArthur, Winnipeg, Man., is interested.

ELECTRIC RAILWAYS

Mattawamkeag, Maine—The Mattawamkeag & Northern Ry. Co. is reviving interest in the proposition to construct a four-mile electric railway from Mattawamkeag to Mattaceunk Rips. Charles W. Mullen, Bangor, Maine, is interested.

New Bedford, Mass.—The City Council has granted a franchise to the Union St. Ry. Co. to extend some of its lines in New Bedford. Elton S. Wilde is Vice-Pres., Gen Supt. and Pur. Agt.

Corry, Penn.—Surveys are being made for the construction of an electric railway from Corry to Mayville. This will be an extension of the line from Columbus to Corry.

Philadelphia, Penn.—Plans are being prepared by the Philadelphia Rapid Transit Co. for double-tracking its cross-town line on 56th St., Philadelphia. W. L. Maize, Philadelphia, is Pur. Agt.

Rochester, Penn.—Plans are being considered by the Pittsburgh, Harmony & New Castle Ry. Co. for the construction of an electric railway from Rochester to Beaver Falls. S. H. Waddell, Pittsburgh, is Secy. and Pur. Agt.

Richmond, Va.—The City Council has granted a franchise to the Richmond Ry. & Power Co. to extend its lines in Richmond. C. B. Buchanan, Richmond, is Gen. Mgr.

Nashville, Tenn.—The Nashville Traction Co. has applied to the City Council for a franchise to extend its line on Fifth Ave. in Nashville. F. W. Hoover, Nashville, is Vice-Pres. and Gen. Mgr.

Nashville, Tenn.—The Tennessee & Kentucky Interurban Electric R.R. Co. has announced that plans have been prepared for the construction of a line from Nashville, Tenn., to Adairville, Ky., about 45 miles. The estimated cost is $786,000. J. P. Helms is Pres.

Louisville, Ky.—The Louisville Ry. Co. plans to extend its Walnut St. line to the State Fair Grounds. W. H. McClure, Louisville, is Pur. Agt.

Paris, Ky.—The business men of Paris are interested in the proposition to construct an electric railway from Paris to Carlisle and Maysville.

Carbondale, Ill.—Preliminary arrangements are being made by the Murphysboro & Southern Illinois Ry. Co. to build an electric line in Carbondale. This is part of a plan to build a 12-mile interurban line between Carbondale and Murphysboro, Ill. Noted Sept. 27 and Oct. 1.

East St. Louis, Ill.—Preliminary arrangements are being made by the East St. Louis & Suburban Ry. Co. for the reconstruction of its line on Main St. T. W. Gregory, East St. Louis, is Asst. Secy.

Peoria, Ill.—The Illinois Traction System plans the extension of its line from the 12th St. station to Belleville and Edwardsville. H. J. Vance, Peoria, is Pur. Agt.

Wheaton, Ill.—The Aurora, Elgin & Chicago Ry. Co. is preparing to construct a loop line through the southeastern section of Wheaton. Edwin C. Faber, Wheaton, is Vice-Pres. and Gen. Mgr.

Missoula, Mont.—The Missoula St. Ry. Co. is considering plans for the extension of its East Side line to the Parkside addition. G. R. Brown, Missoula, is Gen. Mgr. and Pur. Agt.

Corpus Christi, Tex.—The Ward Island Development Co., recently organized, contemplates the construction of an electric railway from Corpus Christi to the amusement park on Ward Island which it intends to establish.

El Paso, Tex.—Thomas P. Ruddy, Kansas City, Kan., and associates are organizing a company for the construction of an electric railway from the business section of El Paso to the Woodlawn addition.

Los Angeles, Calif.—The City Council has recommended the granting of a franchise for an electric railway extension from North Broadway and Prichard St. through Schuetzen Park and the Hermon districts to the boundary limits of South Pasadena.

San Francisco, Calif.—The Fifteenth St. and Park Hill Improvement Association has petitioned the City Council to construct a branch of the municipal electric railway from Van Ness and Market St. to Duboce, Castro, 14th and Alpine St.

Toronto, Ont.—The City Council is considering plans for the extension of the municipal electric railway lines to North Toronto, Beaches, Ward Seven and Rosedale. H. C. Hocken is Mayor and Chn., Bd. of Control.

Edmonton, Alta.—The Edmonton Northwestern Radial Ry. Co., Edmonton, Alta., has applied for a charter to build an interurban railway from Edmonton northwest to the Pembina River. Short, Woods, Bigger & Collison, Edmonton, Alta., are interested.

LIGHT, HEAT AND POWER

+Turners Falls, Mass.—Contracts for a power house in this city have been awarded to FRED T. LEY & CO., INC., 499 Main St., Springfield, Mass., for the steel and concrete work and THOMAS BROS., Turners Falls, for the masonry. The building will be 96x150 ft., 56 ft. high, of brick, on a steel frame with reinforced concrete floors and roof.

Bridgeport, Conn.—The National Lock Washer Co., manufacturer of washers and allied products, will construct a one-story power plant in connection with its factory. W. C. Dodd is Pres.

Perth Amboy, N. J.—At the general election held Nov. 3, the citizens voted in favor of installing and operating a municipal electric-light plant estimated to cost about $150,000. S. J. Mason is City Engr.

Kutztown, Penn.—At the recent election, the citizens voted in favor of an issue of $26,000 in bonds, of which $20,000 will be used for enlarging the municipal electric-light plant. E. Slonecker is Mgr. and Supt. of the plant.

Pittsburgh, Penn.—The Finance Committee of the Board of Education has recommended the award of the contract for electrical equipment in the Schenley High School to the Loughridge Engineering Co., Pittsburgh at $36,172, and the award of the contract for heating and ventilating apparatus to the Hanley-Case Co., Chicago, Ill., at $143,628.

+Logan, W. Va.—(Official)—The Logan County Power & Light Co. will shortly award the contract for the construction of a reinforced concrete brick-lined chimney to the GENERAL CONCRETE CONSTRUCTION CO., 30 Church St., New York, N. Y. Noted July 30, Sept. 17 and Nov. 12.

Spray, N. C.—The Thread Mills Co., Spray, manufacturer of cotton goods, is having plans prepared for a power plant to cost about $150,000.

Ocala, Fla.—The citizens have voted in favor of issuing $75,000 in bonds to be used for the construction of a municipal electric-light plant.

Mobile, Ala.—The Board of Education has rejected all bids received for heating equipment for the city schools. New plans will probably be prepared and the contract readvertised.

Gretna, La.—It is reported that the contract for the construction of a municipal electric-light plant for Gretna will be awarded to Robley S. Stearnes, representing the Standard Electric Construction Co., 625 Poydras St., New Orleans, La. Noted Oct. 22.

+Melville, La.—The Board of Aldermen has awarded the contract for the construction of a municipal electric-light plant to C. A. REES, Shreveport, La., at about $13,000. Noted Sept. 24, Oct. 1 and Oct. 29.

Johnson City, Tenn.—It is reported that the Wagner-Dunn Co. has applied for a franchise to establish a gas plant at Johnson City, estimated to cost $100,000.

Corbin, Ky.—The town has voted in favor of a bond issue for the purpose of establishing a municipal electric-lighting system.

New Haven, Ky.—The town has voted in favor of a bond issue for the purpose of purchasing a local electric-light plant, and enlarging and improving it.

+Cleveland, Ohio—The contract for the construction of a power plant and tunnel for the Cleveland City Hospital has been awarded to J. H. WELLS, Heed Bldg., Philadelphia, Penn., at $47,431 for the power plant, and $43,189 for the tunnel. Noted Oct 22 and 29.

Crestline, Ohio—(Official)—Bids will be received until noon, Dec. 8, by the Village of Crestline for furnishing and operating a complete electric street lighting system for a period of ten years. H. Whitford Jones & Co., Citizens Bldg., Cleveland, Ohio, is Engr.-in-Charge. Edward Libens is Village Clk.

Lorain, Ohio—The City Council has voted in favor of establishing a municipal electric-light plant, and has appointed a special committee to investigate the probable cost of installation, which has been tentatively estimated at $400,000. C. M. Osborne is City Engr.

Oakharbor, Ohio—Bonds to the amount of $4000 have been issued by the village for the purpose of improving the municipal electric plant.

+Peoria, Ill.—The Board of Education has awarded the contract for electrical work in the new Peoria High School to the SANBORN ELECTRIC CO., Indianapolis, Ind., at $12,570.

Marshfield, Wis.—It is reported that the Empire Gas Improvement Construction Co., Minneapolis, Minn., is considering the installation of a gas system in Marshfield. A. M. Sutherland is Pres. of the company.

Crystal City, Tex.—The City Council has granted a franchise to A. D. Riddle, Cotulla, Tex., to construct and operate an electric-light plant.

Orange, Tex.—It is reported that W. H. Stark, formerly Vice-Pres. and Secy. of the Orange Ice, Light & Water Co. has purchased the plants of the company and will enlarge and improve the light and power plant.

Seguin, Tex.—See item under "Water Supply and Irrigation."

✚Billings, Okla.—See item under "Water Supply and Irrigation."

Yale, Okla.—The City Council is having plans prepared by H. Askin, Consult. Engr., Cushing, Okla., for the installation of a municipal electric-light plant and extensions to the waterworks system at a total cost of about $15,000.

Ellensburg, Wash.—The Northern Pacific Ry. will equip its new coal bunkers at Ellensburg throughout with electrically operated machinery.

Fowler, Calif.—The Fowler Gas Co. will issue $15,000 in bonds to make additions to the plant and extensions to the system.

San Francisco, Calif.—The Board of Public Works has had tentative plans prepared by James F. Whittlesey, Elec. Engr., for a plant for lighting and heating the Civic Center at a cost of about $225,000. Noted Oct. 15.

Edmonton, Alta.—The Edmonton, Dunvegan & British Columbia Ry., Edmonton, has had plans prepared for the construction of a new power house at St. Albert's Trail, Alta.

BRIDGES

Portland, Maine—In addition to the list of bids published in the issue of Nov. 12 for the several divisions of the bridge between Portland and South Portland, the following bids were received for piling for foundation work: P. J. Carlin Construction Co., $27,545; John Cashman & Sons Co., $24,190; H. P. Converse & Co., $21,527; T. L. Eyre, $21,820; E. W. Foley Co., $32,570; Foundation Co., $26,982; Fraser, Brace & Co., $24,961; Holbrook, Cabot, Rollins Co., $28,135; MacArthur Bros. Co., $27,832; McHarg-Barton Co., $22,792; John Monks & Son, $51,356; T. Stuart & Sons Co., $33,663; Walsh Construction Co., $27,332.

Concord, N. H.—The Board of Public Works has engaged bridge engineers to prepare plans for a new steel bridge with concrete roadway to replace the present wooden structure over the Merrimack River at the South End. William B. Howe is City Engr.

Holyoke, Mass.—It is reported that plans are being prepared by W. H. Howes, Holyoke, for a new bridge at the upper end of Elmwood Park at Pine St. It will be of concrete, 65 ft. long and 40 ft. wide. T. J. McCarthy is City Engr.

Hartford, Conn.—Bids will be received until 2 p.m., Nov. 30, by the State Highway Commissioner for the construction of a 60-ft. bridge on the Clayton Road, North Canaan Township, and for removing an old bridge in Old Lyme Township to a new location, and constructing abutments, wing walls and approaches, and painting the bridge.

New York, N. Y.—(Borough of Queens)—Press reports state that the Corporate Stock Committee of the Board of Estimate of the city of New York will recommend an immediate appropriation of about $400,000 for reconstructing the Queensboro Bridge to adapt it to the operation of rapid transit trains. F. J. H. Kracke is Comr. Dept. of Bridges.

Olean, N. Y.—At the recent general election, the citizens voted in favor of building a new bridge, estimated to cost $20,000, over the Allegheny River at some point between Seventh and 19th St. H. E. Bunce is City Engr.

✚★Schuylerville, N. Y.—(Official)—The following bids were received Nov. 6 for the construction of a bridge over the west channel of the Hudson River near Schuylerville: Lupfer, Remick & Shea, $23,650; E. W. Foley, $26,790; Parker & Beebe, $22,828; Lou B. Cleveland, $23,373; Holler & Shepard, $22,637; Callahan & Prescott, $21,958; Flood & Van Wirt, $21,505; E. N. & R. E. SPALDING, Suffield, Conn., $18,051 (awarded contract); Seiling & Crocker, $23,815; Groton Bridge Co., $21,570; Harrison Burton Co., $21,658. Noted Oct. 15.

Nutley, N. J.—It is reported that the Board of Chosen Freeholders of Essex County, Newark, plans to build a new bridge over the Third River at Essex St. and Vreeland Ave., Nutley.

✚Lewistown, Penn.—The Borough Council has awarded the contract for the construction of a bridge on Dorcas St., to WAGAMAN BROS., Dallastown, Penn., at about $20,000.

✚New Castle, Penn.—(Official)—The Committee on Grounds and Public Buildings, Harrisburg, has awarded the contract for removing the old bridge and building a new one over the Shenango River at Grant St., New Castle, to GEORGE W. ENSIGN, INC., Harrisburg, at $43,247. Other bidders were: Canton Bridge Co., Canton, Ohio, $54,114; Penn Bridge Co., Beaver Falls, Penn., $49,470; McClintic-Marshall Co., Pittsburgh, $50,895; Fort Pitt Bridge Works, Pittsburgh, $44,900. Noted Oct. 29.

✚Sparrows Point, Md.—(Official)—The Maryland Steel Co. has awarded the contract for the construction of a reinforced concrete ore trestle at its Sparrows Point plant to the RAYMOND CONCRETE PILE CO., 140 Cedar St., New York, N. Y.

Appomattox, Va.—(Official)—Bids will be received until noon, Nov. 27, by the Clerk of the Circuit Court of Appomattox County for the construction of a 72-ft. bridge over the Falling River about four miles from Appomattox, and for a 37-ft. bridge over Cub Creek about seven miles from Appomattox. The Childrey Co., Richmond, Va., is Engr.-in-Charge.

Lynchburg, Va.—The Chesapeake & Ohio Ry., the Norfolk & Western Ry., the Southern Ry., the city of Lynchburg and Amherst County have entered into an agreement for the construction of a 1700-ft. reinforced concrete viaduct over the James River at the foot of Seventh St., Lynchburg. The estimated cost is $300,000, of which the city will pay $50,000 and Amherst County $10,000. H. L. Shaner is City Engr. Noted July 16 and July 30.

Princeton, W. Va.—The Princeton Power Co., Princeton, plans to construct five steel bridges on its railway line between Princeton and Bluefield, a distance of 12 miles. G. H. Hill is Ch. Engr.

Bids will be received, until Nov. 19, by the Board of Commissioners of Mercer County, for the construction of three reinforced-concrete bridges over the Bluestone River. W. I. Lee is Ch. Engr. of Const.

Fort Lauderdale, Fla.—Bids were opened, Nov. 3, by the Commissioners of Dade County for the construction of a double-track steel bridge over the New River at Fort Lauderdale, but all were rejected as too high. This is the second time that bids for this work have been rejected. The bids for various designs follow: Edwards Construction Co., Tampa, $26,300 and $35,500; Champion Bridge Co., Wilmington, Ohio, $24,495; Standish & Allen Co., Chicago, Ill., $18,800, $19,030, $27,800 and $28,300. Noted July 23, Aug. 20 and Oct. 22.

Vicksburg, Miss.—Owing to the alleged deficiencies of the plans prepared for the steel bridge over the Big Black River at Holt's Ferry, the Boards of Supervisors of Warren and Hinds Counties have postponed opening bids for the construction of the bridge from Nov. 3, until early in December. J. D. Laughlin, Vicksburg, is Chancery Clk. of Warren County. Noted Oct. 15 and Oc. 29.

✚★New Orleans, La.—The city has awarded the contract for the construction of the Strauss trunnion bascule bridge over the New Basin Canal at City Park Ave. to the PENN BRIDGE CO., Beaver Falls, Penn., at $34,800. Noted Oct. 1 and Nov. 5.

✚Miamisburg, Ohio—(Official)—The following bids were received, Nov. 6, by the Board of Commissioners of Montgomery County, Dayton, for the construction of the steel superstructure of Bridge No. 241, over the Great Miami River at Linden Ave., Miamisburg: BROOKVILLE BRIDGE CO., Brookville, Ohio, $44,800 (awarded contract); King Bridge Co., Cleveland, $47,450; Riverside Bridge Co., Martin's Ferry, Ohio, $50,560; Toledo Bridge Co., Toledo, $52,990; E. M. Scully, Columbus, $52,475; Childers Construction Co., Columbus, $50,818. Victor C. Smith is County Engr. Noted Oct. 29.

✚Sciotoville, Ohio—The Chesapeake & Ohio Ry. has awarded the contract for the substructure of a bridge across the Ohio River, to the DRAVO CONTRACTING CO., Pittsburgh, Penn. It will consist of 27 concrete piers for bridge and approaches. The estimated cost of the entire bridge is $2,000,000. F. I. Cabell, Richmond, Va., is Ch. Engr. Chesapeake & Ohio Ry. Noted Jan. 29 and July 23.

Alton, Ill.—(Official)—A special election will be held Nov. 28, in the city of Alton to vote on the qestion of a bond issue of $55,000 for the purpose of building a viaduct across Seventh St. between State and Alby St., and $15,000 for building and equipping a fire station in Upper Alton. B. R. Kennedy is City Clk.

✚Taylorville, Ill.—The Commissioners of Christian County have awarded the contract for the construction of a 126-ft. bridge over the South Fork of the Sangamon River to MILLER & HUSBAND, Springfield, Ill. It will be of steel, four spans of 24 ft. each and one of 30 ft., with a 15-ft. concrete roadway.

Keokuk, Iowa—Recent press reports state the bids will be asked soon by the Keokuk & Hamilton Bridge Co. for the reconstruction of the bridge over the Mississippi River between Keokuk and Hamilton, Ill. The estimated cost of the work is $400,000. Plans were prepared by Ralph Modjeski, Orchestra Hall, Chicago, Ill., and have been approved by the War Department. Theodore Gilman is Secy. of the Keokuk & Hamilton Bridge Co. Noted Aug. 6 and Sept. 3.

✚Shenandoah, Iowa—The Commissioners of Page County, Clarinda, have awarded a contract for the construction of a bridge over Four-Mile Creek at Shenandoah to BRIGGS & COREY at $4200. Half the cost will be borne by the city of Shenandoah.

Independence, Kan.—Bids will be received until Nov. 23, by the Commissioners of Montgomery County, Gerald A. Otwell, Clk., for the repair of the McTaggart Bridge over the Verdigris River.

✚Wichita, Kan.—(Official)—The City Council has awarded the contract for the construction of a reinforced concrete bridge over the Little Arkansas River between Central and South Riverside Parks to the MARSH ENGINEERING CO., Des Moines, Iowa, at $13,950. There were eight other bidders. Noted Oct. 29.

✚Armour, S. D.—(Official)—The Board of Commissioners of Douglas County has awarded the contract for all bridge work in the county during 1915 to the FEDERAL BRIDGE CO., Des Moines, Iowa. C. F. Meyer is County Audr. Noted Nov. 5.

Billings, Mont.—It is reported that bids will soon be asked for the construction of two reinforced concrete bridges over the Yellowstone River, one at Pompey's Pillar and the other west of Billings. The two bridges will cost $75,000. Noted Oct. 15 and Oct. 29.

Chouteau, Mont.—The Commissioners of Teton County are having plans prepared for four new steel bridges to be built in this district, and bids for their construction will soon be asked.

★Marion, Ark.—(Official)—Bids will be received until noon, Dec. 1, for the construction of a reinforced concrete viaduct approximately 2½ miles long. H. W. Hesterly is Engr.-in-Charge.

El Paso, Tex.—It is reported that Morris & Co., Chicago, Ill., meat packers, will build a reinforced concrete viaduct over the Rio Grande River in connection with the stockyards to be established by the company in El Paso.

Chandler, Okla.—(Official)—Bids will be received until 2 p.m., Nov. 24, by the Commissioners of Lincoln County, acting as Drainage Commissioners for Deep Fork Drainage District No. 1, for the construction of a steel bridge over the main ditch of the district. R. P. Roope is County Clk.

✚El Reno, Okla.—The Board of Commissioners of Canadian County has awarded the contract for the construction of three county bridges to the OREGONIA BRIDGE CO., Lebanon, Ohio.

Idabel, Okla.—(Official)—At the recent general election, the citizens of McCurtain County voted against a bond issue of $122,000 for the construction of 37 bridges in the county. J. W. Dewitt is County Clk. Noted Oct. 22.

Pima, Ariz.—A special election will be held Nov. 28, in Graham County for the purpose of voting on the question of issuing $18,000 in bonds to be used for building a bridge over the Gila River near Pima.

✚Glendale, Calif.—Contracts for the constrction of a reinforced concrete bridge over the wash at Opechee Way crossing, and for grading and protecting the channel with piles, have been awarded to MESMER & RICE, Marsh-Strong Bldg., Los Angeles, at $10,600 and $8238 respectively.

✚Red Bluff, Calif.—The following bids were received by the Board of Supervisors of Tehama County for the construction of eight bridges on the State Highway from the Glenn County line to Corning, (a) concrete, (b) steel: William Stephens, (a) $28,350, (b) $27,350; Chico Construction Co., (a) $25,985; Walcott & Brunk, (a) $27,850; H. C. Cameron, (a) $29,984, (b) $27,400; Pacific Bridge Co., (a) $24,890; Fritz & Horn, $36,400; C. E. COTTON, San Francisco, Calif., (a) $24,723, (awarded contract); R. W. Moller, (a) $25,500, (b) $23,400. Noted Oct. 8.

San Jose, Calif.—The Board of Supervisors of Santa Clara County has rejected all bids received for the construction of a reinforced concrete bridge over Los Gatos Creek on the Infirmary Road. J. G. McMillan is County Surv. Noted Oct. 1.

✚The Supervisors have awarded the contract for constructing a bridge over Stevens Creek at Montebella Road to C. R. & R. I. MEYERHOLZ.

Cairo, Ont.—The Township Council of Euphemia Township has passed a bylaw authorizing the reconstruction of a bridge over the Euphemia and Dawn Townships drain. D. M. Smith, Cairo, is Township Clk.

★Toronto, Ont.—(Official)—Bids will be received until noon, Dec. 21, by H. C. Hocken, Chn. Bd. of Control, for building across the Rosedale Valley, a bridge 86 ft. wide, consisting of one steel arch span with piers and approaches, about 580 ft. long, and a concrete retaining wall about 170 ft. long.

St. Catharines, Ont.—(Official)—Bids will be received until Dec. 8, by W. P. Near, City Engr., for the construction of the St. Paul St. High Level Bridge, 1236 ft. long, 41 ft. wide and 89 ft. above the water level of the old Welland Canal. About 2,614,000 lb. of steel will be required. Noted Oct. 8.

WATER SUPPLY—IRRIGATION

★Boston, Mass.—(Official)—Bids will be received by the Metropolitan Water and Sewerage Board until 1:30 p.m., Nov. 23, for 3930 tons of 60-in. c.-i. pipe and 120 tons of specials. Dexter Brackett is Ch. Engr. Water Wks.

Bids will be received until, Nov. 20, by the Public Works Department for laying 4450 ft. of 8, 10 and 12-in. water pipe in various streets. L. K. Rourke is Comr.

✚★New York, N. Y.—(Official)—Bids were received, Nov. 10, by the Board of Water Supply, Municipal Bldg., for the construction of the Moodna Siphon supplementary shaft and tunnel of the Catskill aqueduct under Contract 160 as follows: OSCAR DANIELS CO., $365,926 (awarded contract); T. A. Gillespie Co., $382,290; Mason & Hanger Co., $387,499; Pittsburg Contracting Co., $389,207; J. F. Cogan Co. Contractors, $94,816; Holbrook, Cabot & Rollins Corporation and George B. Fry, $409,225; Snare & Triest Co., $416,381; Degnon Contracting Co., $471,226; and Smith, Hauser & MacIsaac, Inc., $663,979. William Williams, Municipal Bldg., Manhattan, is Comr. of Water Supply, Gas and Electricity. Noted Oct. 18.

Port Washington, N. Y.—The citizens contemplate constructing a municipal water system at an estimated cost of $200,000.

Hamburg, N. J.—The town officials are considering the installation of a water system.

Newark, N. J.—Bids will be received by the Commissioner of Public Buildings of the Common Council, until 3 p.m., Nov. 27, for a steel tower and water tank, and drilling a well at the new almshouse on Ivy Hill, South Orange Township. J. F. Hanlon is Chn.

Juniata, Penn.—The citizens plan to lay 9000 ft of 16-in. water mains. Harvey Linton is Engr.

Pine Grove, Penn.—Bids will soon be received for the construction of a 3,000,000-gal. reservoir and for 2½ miles of 8-in. pipe. Plans are on file with Edgar A. Weimer, Engr., Lebanon, Penn. and C. F. Anderson, Boro. Clk.

Tamaqua, Penn.—The citizens contemplate issuing bonds for $6900 for the construction of a reservoir. Plans have been prepared. Noted Oct. 29.

Topton, Penn.—Bonds for $13,000 were voted by the citizens, the proceeds of which will be used for the making of extensions to the water system.

★Baltimore, Md.—(Official)—Bids will be received until 11 a.m., Dec. 2, by the Board of Awards for constructing a reinforced concrete lining in the Gunpowder Tunnel, improvement of Gunpowder Supply. Robert L. Clemmitt is Acting Water Engr. For details see advertisement under "Contracts To Be Let."

Shadyside, W. Va.—The citizens contemplate spending $30,000 for the construction of a municipal water system.

Clearwater, Fla.—According to press reports, bids will be received by R. T. Daniel, City Clk., about Jan. 15, for making extensions to the water system. Bonds for $8000 have been voted for this purpose. Noted June 11.

★Manatee, Fla.—(Official)—Bids will be received until noon, Dec. 15, by the city for constructing a water system and for laying three miles of pavement. Frank J. Fagan is Comr. of Pub. Wks. and City Engr. For details see advertisement under "Contracts To Be Let."

✚★New Orleans, La.—The contract has been awarded by the Sewerage and Water Board to ETTA CONTRACTING Co. at $492,487 for making extensions to the water and sewer systems. Bids opened Nov. 4. Noted Oct. 1.

Covington, Ky.—The bond issue for $200,000, the proceeds to be used for the improvement of the water system, has been authorized by the voters. Noted Oct. 29.

Sebree, Ky.—At an election held Nov. 3, the citizens voted in favor of issuing bonds for $8000, the proceeds to be used for the installation of a water system. Noted Sept. 24.

Attica, Ohio—(Official)—W. J. Sherman Co., Toledo, has been retained by the village to prepare preliminary plans for the improvement of the municipal water system.

Bluffton, Ohio—(Official)—The village has retained the W. J. Sherman Co., Toledo, to prepare preliminary plans for the improvement of the municipal water system. Noted Oct. 22.

Canton, Ohio—(Official)—R. Winthrop Pratt, Hippodrome Bldg., Cleveland, will make an investigation and estimate the cost for making improvements and enlarging the water system. Noted Oct. 22.

East Liverpool, Ohio—(Official)—R. Winthrop Pratt, Hippodrome Bldg., Cleveland, has been retained by the city to prepare plans for making improvements to the water system.

Lakewood, Ohio—At an election held Nov. 3, the citizens voted against the question of issuing bonds for $450,000 for the construction of a municipal water system. Noted Sept. 24.

Marion, Ohio—The citizens voted in favor of issuing bonds, the proceeds of which to be used for the enlargement of the water system. H. H. Noyes is City Engr. Noted Sept. 24.

Mt. Blanchard, Ohio—The citizens voted in favor of issuing bonds for $10,00, the proceeds to be used for the construction of a water system. Noted Oct. 8.

Upper Sandusky, Ohio—(Official)—R. Winthrop Pratt, Hippodrome Bldg., Cleveland, has been retained by the city to prepare plans and supervise the construction work in connection with the remodeling of the filtration plant.

Woodville, Ohio—Bonds for $25,000, the proceeds of which will be used for the installation of a water system, were voted by the citizens.

✚Ashton, Ill.—The contract for constructing a water system has been awarded to W. F. HOY, Woodstock, Ill., at about $16,000.

★Chicago, Ill.—(Official)—Bids will be received by the City of Chicago, until 11 a.m., Dec. 2, for constructing Sec. 1, of the Wilson Ave. water tunnel, including an intake crib and shaft. L. E. McGann is Comr. of Pub. Wks. For details see advertisement under "Contracts To Be Let."

✚Malta, Ill.—The contract for installing a water system has been awarded to NATIONAL CONSTRUCTION CO., South Bend, Ind., at about $15,000.

✚Rock Island, Ill.—The contract for the installation of a 6,000,000-gal. two stage pump for the water system has been awarded to HENRY R. WORTHINGTON CO., Harrison, N. J., at $6662. Noted July 30.

Villa Grove, Ill.—J. Rollin Gray, Old Colony Bldg., Chicago, has been retained to prepare plans for the construction of a water system. Noted Aug. 13.

Hayward, Wis.—The Common Council has voted in favor of issuing bonds for $12,000, the proceeds to be used for the construction of a water system. Noted Oct. 22.

Duluth, Minn.—The Council has authorized the expenditure of $8000 for the purchase of pipe for the water system and electric-light system.

Coffeyville, Kan.—The citizens voted in favor of issuing bonds for $20,000, the proceeds of which will be used for the construction of a filtration plant. A. C. Gillam is City Engr.

Douglass, Kan.—The citizens voted in favor of issuing $12,000 in bonds, the proceeds of which will be used for the extension of the water system.

Mott, N. D.—The citizens contemplate spending $16,000 for the installation of a water system. H. S. Green, Spokane, Wash., is Engr.

✚Medicine Bow, Wyo.—Bids were received Nov. 7, by the Town Council for the construction of a water system. The contract has been awarded to J. S. SCHWARTZ, 1015 East Boulder St., Colorado Springs, Colo., at $8071. Noted Nov. 5.

Corpus Christi, Tex.—According to press reports bids are being received for the improvement of the water system. H. A. Stevens is City Engr. Noted Sept. 17.

Del Rio, Tex.—The Val Verde Irrigation Co. plans to construct a system of irrigation at Del Rio to water 4000 acres.

✚Polytechnic, Tex.—The contract has been awarded to J. M. GEORGE, Fort Worth, for laying water mains, and settling fire hydrants.

Seguin, Tex.—Bonds have been voted by the citizens, the proceeds to be used for the improvement of the municipal water system and electric-light plant. The estimated cost is $20,000.

✚Ardmore, Okla.—The contract has been awarded to JOHN W. ROOKS, McAlester, Okla., at $7653 for the laying of water mains, sewer pipe and gas mains to connect the Bloomfield Seminary with the Ardmore systems.

✚Billings, Okla.—The contract for the construction of a water system and electric-light plant has been awarded to HUMRICHAUSE CONSTRUCTION CO., Carmen, Okla., at $22,412. Bids opened Oct. 29. Noted Oct. 29.

Tularosa, N. M.—R. W. Mitchell plans to construct an irrigation system near Tularosa.

Tremonton, Utah—The citizens voted in favor of issuing $7000 in bonds, the proceeds of which will be used for the securing of a new water supply.

Seattle, Wash.—Oliver T. Erickson, Councilman, has introduced a bill into the Council appropriating $5000 from Cedar River water extension fund, No. 2, to cover the cost of plans and estimates for an extension of the Cedar River water system to West Seattle, the Duwamish Valley, and a portion of Rainier Valley. The work will cost approximately $3,000,000. A reservoir in West Seattle, and a third penstock connecting the water system with the Cedar River intake at Landsburg, are included in the improvement.

✚The contract for laying water mains in the southern section of the city has been awarded to GUILIO ARGENTIETI, at $7011. Noted Nov. 12.

✚**Seattle, Wash.**—The contract for installing a sprinkler system on Hanford St. wharf has been awarded to AUTOMATIC SPRINKLER CO. OF AMERICA, at $15,584.

Azusa, Calif.—Bonds for $35,000 have been voted by the citizens, the proceeds of which will be used for the installation of a water system. Noted Oct. 22.

Brawley, Calif.—The citizens voted in favor of issuing bonds for $35,000, the proceeds to be used for the improvement of the municipal water system. C. J. Park is City Engr.

El Centro, Calif.—The citizens of Imperial Valley voted in favor of issuing bonds for $3,500,000 for the purchase of the irrigation system of the California Development Co.

Marysville, Calif.—The capital stock of the Hallwood Irrigation Co. has been increased from $25,000 to $50,000 for the extension of its system.

Oakdale, Calif.—The Sierra & San Francisco Power Co., San Francisco, contemplates constructing reservoirs above Oakdale for irrigation and power purposes. The estimated cost is $4,000,000. H. F. Jackson, Berkeley, is Gen. Mgr.

✚**Orland, Calif.**—See item under "Sewers."

San Diego, Calif.—The Paumo Valley Water Co., recently organized by J. Moore, Jr., J. C. Adams and G. M. Henderson with a capital stock of $300,000, will construct an irrigation system to water about 12,000 acres.

Ottawa, Ont.—Bids will be received until 4 p.m., Nov. 26, by the Secretary of the Board of Control for a 15,000,000-gal., elecrically driven, direct connected, low-lift turbine pump and motor. F. C. Askwith is City Engr.

The City Council has passed a by-law authorizing the expenditure of $250,000 for the construction of an intake pipe for the water system.

Thorold, Ont.—Bids will be received by the Chairman of the Board of Water Commissioners until 8 p.m., Nov. 25, for a filtration plant. Plans are on file with Chipman & Power, Engrs., Mail Bldg., Toronto, Ont.

SEWERS

Boston, Mass.—Bids will be received, until Nov. 19, by the Public Works Department, for constructing sewers and drains in Intervale St., Dorchester District and until Nov. 23 for sewers and drains in Spring St., West Roxbury District. L. K. Rourke is Comr.

✚★**Woonsocket, R. I.**—The contract for constructing sewers in the Fairmont District has been awarded by the Board of Sewer Commissioners to THOMAS BRUNO, Boston, Mass. Bids opened Nov. 2. Noted Oct. 22.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received, until 11 a.m., Nov. 25, by L. H. Pounds, Pres., Borough of Brooklyn, for constructing an outlet sewer in Shore Rd., from 83d to 79th St.

✚(Borough of Brooklyn) — (Official) — The contract for dismantling one boiler in the Ridgewood North Side pumping station and one boiler in the Jameco pumping station No. 2 and transporting them to the Jameco pumping station No. 1, has been awarded to DOVER BOILER WORKS, at $4778. Noted Oct. 22 and Oct. 29.

Lyndhurst, N. J.—The Union Township Board of Commissioners has authorized the preparation of plans for the construction of a sewer system.

Montclair, N. J.—The construction of a trunk sewer in the east side of Upper Montclair has been deferred until spring. Noted Oct. 29.

★**North Plainfield, N. J.**—(Official)—Bids will be received, until 8 p.m., Dec. 8, by the Borough of North Plainfield, for constructing a sewage collecting system and outfall sewer. C. M. Dolliver is Borough Clk. For details see advertisement under "Contracts To Be Let."

Bradford, Penn.—Plans have been prepared by B. A. Wise, City Engr., for the construction of a sewage settling system and a sewage disinfecting system.

Miner's Mills, Penn.—On Nov. 3 the citizens voted in favor of issuing bonds for $40,000 for the construction of sewers and for paving.

Parkesburg, Penn.—At a recent election the citizens voted in favor of issuing bonds for the construction of a sewer system and sewage disposal plant. Noted Oct. 1.

★**Baltimore, Md.**—(Official)—Bids will be received until 11 a.m., Dec. 2, by the Sewerage Commission for building Section 10 of the High Level interceptor, Contract 126; Ostend St. trunk sewer, Contract 138; lateral sewers and house connections in District 44-B, Contract 139; for Contract 140 and for building storm water drains under Contract 41. Calvin W. Hendrick is Ch. Engr. of the Sewerage Comn.

✚**Richmond, Va.**—According to press reports, contracts have been awarded to BURTON MARYE, at $20,718 for Section 1-A of the Bacon Quarter branch sewer and to SAVILLE & CLAIBORNE at $20,693 for Section 1-B.

Lancaster, S. C.—Bids will be received until 3 p.m., Dec. 1, by John Crawford, City Clk., for installing two sewage disposal plants. The H. S. Jaudon Engineering Co., Savannah, Ga., is the Engr.

Manchester, Ga.—The citizens have decided to postpone the construction of the sewer system. J. N. Hazlehurst & Sons, Atlanta, are the Engrs.

Clearwater, Fla.—Bids will be received about Jan. 1, by R. T. Daniel, City Clk., for the construction of a sewer system and septic tank. The estimated cost is $18,000. Noted July 9.

★**Manatee, Fla.**—(Official)—Bids will be received, until noon, Dec. 15, by the city, for constructing a system of storm and sanitary sewers. Frank J. Fagan is Comr. of Pub. Wks. and City Engr. For details see advertisement under "Contracts To Be Let."

Cleveland, Ohio—The City Council has sold $117,000 in bonds for constructing sewers in East Cleveland.

Lancaster, Ohio—Bids will be received by John A. Mayer, Dir., Pub. Ser., until Nov. 25, for constructing and completing a sewer and laterals in Pierce Ave. in District No. 5.

Newburg Heights (Newburg post office) **Ohio**—(Official)—Bids will be received by J. A. Fitzgerald, Village Clk., until noon, Nov. 27, for constructing a sewer in East 53rd St.

Rocky River, Ohio—At the general election the citizens voted in favor of issuing $50,000 in bonds for sewers and a sewage disposal plant.

Toledo, Ohio—The city, acting jointly with the County Commissioners, will install a storm water sewer in the Norwood District in the near future. The estimated cost is $7000.

✚**Evansville, Ind.**—A contract for constructing three lateral sewers has been awarded to J. L. NEWMAN.

Grosse Point, Mich.—At the general election the citizens voted in favor of issuing $100,000 in bonds for trunk sewer construction.

Harbor Beach, Mich.—At the general election the citizens voted in favor of issuing $30,000 in bonds for installing a complete sewer system.

Joliet, Ill.—(Official)—Bids will be received by the Board of Local Improvements until 10 a.m., Nov. 23, for constructing a sewer in Wilson St. and Grant Ave.

Algona, Iowa—The City Council has authorized the City Engineer to prepare plans for the construction of two sewers in the Second and Third Districts.

★✚**Clinton, Iowa**—(Official)—A contract for constructing a sanitary and storm sewer in District No. 4, has been awarded to A. R. COFFEEN, Decorah, Iowa, at $5168. Other bids were: John F. Bredow, Davenport, Iowa, $6412; James J. McGuigan & Co., Albany, N. Y., $5504; D. E. Keeler & Co., Davenport, Iowa, $6166; Dearborn Construction Co., Waterloo, Iowa, $6535; Thomas Carey & Sons, Clinton, Iowa, $5465. Noted Oct. 22.

Brainerd, Minn.—Bids will be received by U. N. Roderick, City Clk., until 8 p.m., Dec. 7, for constructing a lateral sewer in District No. 3.

✚**Hutchinson, Kan.**—(Official)—The contract for constructing an intercepting sewer outlet has been awarded to EVERETT & BURT, Hutchinson, at $15,883. Noted Oct. 1 and 29.

✚**Kansas City, Mo.**—A contract for constructing joint district sewers in Districts No. 360, 361, 362, 364 and 365, Division No. 5, has been awarded to LEO E. KOEHLER, at $39,872.

Uvalde, Tex.—The City Council has approved the bond issue of $35,000 to construct a sewer system.

Colorado Springs, Colo.—(Official) — Plans are being prepared by R. Winthrop Pratt, Hippodrome Bldg., Cleveland, Ohio, for the construction of a sewage treatment plant at the Cragmore Sanitorium at Colorado Springs.

✚**Los Angeles, Calif.**—The contract for constructing the Alameda St. storm drain and sanitary sewer and for paving Alameda and other streets, has been awarded to T. J. SHEA, 1800 Oxford St., at $195,147.

✚**Orland, Calif.**—A contract has been awarded by the Board of Trustees to C. D. VINCENT, Oakland, Calif., at $12,015 for extending the sewer and water systems.

Venice, Calif.—The City Council contemplates an expenditure of $30,000 for an outfall sewer and septic tank.

Toronto, Ont.—Bids will be received until Nov. 25 for constructing sewers in various streets. Chipman & Power, Mail Blg., Toronto, are Engrs.-in-Charge.

✚**Halifax, N. S.**—A contract for constructing a number of sewers has been awarded to Robert & Co. at $14,000.

STREETS AND ROADS

Boston, Mass.—Plans are being prepared for the proposed South Shore Boulevard to be built by the Metropolitan Park Commission. Estimated cost $450,000. John R. Rablin, 14 Beacon St., is Ch. Engr.

Hartford, Conn.—Bids will be received at the office of the State Highway Commissioner, Capitol, Hartford, until 2 p.m., Nov. 30, for the following state road work:

Lebanon Township, about 7300 lin.ft. native stone macadam on the Creamery Hill Rd. Estimated quantities, 1020 cu.yd. earth grading, 3825 cu.yd. borrowed embankment, 1010 sq.yd. earth grading, 100 cu.yd. rock excavation, 90 cu.yd. wet excavation 8865 sq.yd. 7-in. and 2500 sq.yd. 4-in. macadam, 2500 sq.yd. telford base, 850 tons trap rock screenings, 210 tons three-quarter inch native stone in piles, 5683 gal. asphaltic oil or asphaltic flush coat applied, 35 cu.yd. first class concrete, 10 cu.yd. second class concrete, 11,530 lb. steel beams and reinforcement, 10 cu.yd. dry rubble wall, 145 cu.yd. new masonry, 50 sq.yd. repointing old masonry, 49 lin.ft. gas pipe railing, 414 lin.ft. corrugated iron pipe culverts, one catch basin and strainer, 100 sq.yd. cobble gutters, 300 lin.ft. rubble drain, 1500 lin.ft. replacing stone walls, 100 lin.ft. new stone fence, 100 lin.ft. new wire fence, 100 cu.yd. sand or gravel fill, 2300 cu.yd. stone fill. Specifications on file at the Town Clerk's office, Lebanon.

Sherman Township, about 3898 lin.ft. native stone macadam on the Gaylordsville Rd. Esimated quantities, 1575 cu.yd. earth grading, 1000 cu.yd. borrowed embankment, 2040 cu.yd. rock excavation, 5970 sq.yd. 7-in. and 100 sq.yd. 4-in. macadam, 100 sq.yd. telford base, 450 tons trap rock screenings, 110 tons ¾-in. trap rock in piles, 3035 gal. asphaltic oil or asphalt flush coat applied, 10 cu.yd. second class cement, 10 cu.yd. new masonry, 10 cu.yd. old masonry relaid, 50 sq.yd. repointing old masonry, 226 lin.ft. corrugated iron pipe culverts, one catch basin and strainer, 226 lin.ft. corrugated iron pipe culverts, one catch basin and strainer, 100 sq.yd. cobble gutters, 100 lin.ft. rubble drain, 1400 lin.ft. stone walls re-

placed, 100 lin.ft. new stone walls, 50 cu.yd. crushed stone fill. Specifications on file at the Town Clerk's office, Sherman.

Winchester Township, about 4645 lin.ft. trap rock or native stone macadam on the Riverton Rd. Estimated quantities, 1035 cu.yd. earth grading, 2600 cu.yd. borrowed embankment, 100 cu.yd. rock excavation, 125 cu.yd. wet excavation, 4950 sq.yd. 7-in. and 2300 sq.yd. 4-in. trap rock or native stone macadam, 2300 sq.yd. telford base, 540 tons trap rock screenings, 130 tons ¾-in. native stone in piles, 65 cu.yd. trap rock in piles, 3625 gal. liquid asphalt or asphaltic flush coat applied, 22 cu.yd. first class cement, 10 cu.yd. second class cement, 1935 lb. steel beams and reinforcement, 75 cu.yd. new masonry, 10 cu.yd. dry rubble masonry, 75 cu.yd. old masonry relaid, 50 sq.yd. old masonry repointed, 39 lin.ft. gas pipe railing, 178 lin.ft. corrugated iron pipe culvert, one standard catch basin and strainer, 100 sq.yd. cobble gutter, 500 lin.ft. rubble drain, 250 lin.ft. stone walls replaced, 100 lin.ft. new stone fence, 100 lin.ft. wire fence, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill. Specifications on file at the Selectmen's office, Winsted.

Chatham Township, about 5240 lin.ft. gravel or trap rock macadam on the Middle Haddam Rd. Estimated quantities, 580 cu.yd. earth grading, 2200 cu.yd. borrowed embankment, 200 cu.yd. rock excavation, 90 cu.yd. wet excavation, 7650 sq.yd. 7-in. and 500 sq.yd. 4-in. macadam or 8150 sq.yd. gravel surfacing, 500 sq.yd. telford base, 75 cu.yd. ¾-in. trap rock in piles, 4075 gal. liquid asphalt or asphaltic flush coat applied, 18 cu.yd. first class concrete, 10 cu.yd. second class concrete, 1500 lb. steel beams and reinforcement, 70 cu.yd. new masonry, 10 cu.yd. dry rubble masonry, 70 cu.yd. old masonry relaid, 50 sq.yd. old masonry repointed, 24 lin.ft. gas pipe railing, 690 lin.ft. corrugated iron pipe culverts, 170 lin.ft. old pipe relaid, 8 catch basins and strainers, 100 sq.yd. cobble gutters, 500 lin.ft. rubble drain, 500 lin.ft. stone walls replaced, 100 lin.ft. new stone walls, 100 lin.ft. new wire fence, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill. Specifications on file at the Selectmen's office, East Hampton, Conn.

Saybrook Township, about 4170 lin.ft. gravel, native stone or trap rock macadam on the Winthrop Rd. Estimated quantities, 430 cu.yd. earth grading, 2950 cu.yd. borrowed embankment, 100 cu.yd. rock excavation, 165 cu.yd. wet excavation, 3685 sq.yd. 7-in. and 2800 sq.yd. 4-in. trap rock or native stone macadam, 6485 sq.yd. gravel surfacing, 2800 sq.yd. telford base, 485 tons trap rock screenings, 120 cu.yd. ¾-in. native stone in piles, 60 cu.yd. three-quarter inch trap rock, 3240 gal. liquid asphalt or asphaltic flush coat applied, 62 cu.yd. first class concrete, 10 cu.yd. second class concrete, 22,255 lb. steel beams and reinforcement, 100 cu.yd. new masonry, 10 cu.yd. dry rubble masonry, 125 cu.yd. old masonry relaid, 50 sq.yd. old masonry repointed, 96 lin.ft. gas pipe railing, 144 lin.ft. corrugated iron pipe culvert, one catch basin and strainer, 100 sq.yd. cobble gutters, 100 lin.ft. rubble drain, 150 lin.ft. old stone walls replaced, 100 lin.ft. new stone walls, 100 lin.ft. new wire fence, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill. Specifications on file at the Town Clerk's office, Deep River, Conn.

Bridgewater Township, about 16,140 lin.ft. 4-in. macadam on the Southville Rd. Estimated quantities, 4550 cu.yd. earth grading, 1470 cu.yd. borrowed embankment, 990 cu.yd. rock excavation, 150 cu.yd. wet excavation, 25,105 sq.yd. 4-in. macadam, 1880 tons trap rock screenings, 490 cu.yd. ¾-in. native stone in piles, 9000 sq.yd. telford base, 12,550 gal. liquid asphalt or asphaltic flush coat applied, 3 cu.yd. first class concrete, 10 cu.yd. second class concrete, 2800 lb. steel beams and reinforcement, 70 cu.yd. new masonry, 10 cu.yd. dry rubble masonry, 60 cu.yd. old masonry relaid, 50 sq.yd. old masonry repointed, 55 lin.ft. gas pipe railing, 194 cu.yd. cobble gutters, 185 lin.ft. old pipe relaid, 2 catch basins and strainers, 100 sq.yd. cobble gutters, 500 lin.ft. rubble drain, 1100 lin.ft. old walls relaid, 100 lin.ft. new stone walls, 100 lin.ft. wire fence, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill, 117 cu.yd. circular concrete culverts in place. Specifications on file at the store of C. N. Hatch, Bridgewater, Conn.

Stonington Township, about 21,920 lin.ft. gravel, bituminous native stone macadam or plain or reinforced concrete on the Norwich-Westerly Turnpike. Estimated quantities: 7320 cu.yd. earth grading, 7670 cu.yd. borrowed embankment, 1000 cu.yd. rock excavation, 395 cu.yd. wet excavation, 40,870 sq.yd. of gravel surface, or 40,780 sq.yd. of bituminous macadam, or 8005 cu.yd. of concrete construction, 2000 sq.yd. of telford base, 40,870 sq.yd. steel reinforcement, 53 cu.yd. first class concrete, 10 cu.yd. second class concrete, 6335 lb. steel beams and reinforcement, 180 cu.yd. new masonry, 10 cu.yd., new dry rubble masonry, 180 cu.yd. old masonry relaid, 100 sq.yd. old masonry repointed, 45 lin.ft. gas pipe railing, 1290 lin.ft. corrugated iron pipe culverts, 5 catch basins and strainers, 500 sq.yd. cobble gutters, 1000 lin.ft. rubble drain, 1500 sq.yd. rip rap, 3000 lin.ft. stone fences replaced, 100 lin.ft. new stone fences, 100 lin.ft. wire fence, 50 sq.yd. turf relaid, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill. In connection with this work there will be a 30-ft. span concrete bridge, with the following estimated quantities; 300 cu.yd. wet excavation, 72 cu.yd. first class concrete, 10 cu.yd. second class concrete, 32,000 lb. steel beams and reinforcement, 2600 cu.yd. new masonry, 100 cu.yd. old masonry relaid, 66 lin.ft. gas pipe railing, 100 lin.ft. piles in place, 1000 bd. ft. grillage. Specifications on file at the Town Clerk's office, Stonington.

✚The State Highway Commissioner has awarded the contract for the construction of a section of concrete pavement on the Short Beach Rd. in East Haven Township to the CONNECTICUT GOOD ROADS & CONSTRUCTION CO., New Britain, Conn., at $8000.

✚**Albany, N. Y.**—Bids were received, Oct. 30, by the State Highway Commission and contracts were awarded for road improvement as follows:

Road No. 5217 A, Chautauqua County, 6.82 miles. LAWRENCE SCHULTZE, Fredonia, N. Y., at $100,199.

Road No. 5245 A, Chautauqua County, 5.96 miles. EDWARD T. BOCK & CO., Warren, Penn., $92,103.

Road No. 5263 A, Chautauqua County, 5.51 miles. EDWARD T. BOCK & CO., Warren, Penn., $81,866.

Road No. 5520, Clinton County, 11.83 miles. GRUNDER & HALLENBECK, Harriman, N. Y., $104,432.

Road No. 1212, Erie County, 5.4 miles. THOMAS F. SHAUGHNESSY, Albany, N. Y., $132,710.

Road No. 1213, Erie County, 6.22 miles. CHEEKTOWAGA CONSTRUCTION CORPORATION, Buffalo, N. Y., $89,988.

Road No. 1214, Erie County, 5.9 miles. THOMAS F. SHAUGHNESSY, Albany, N. Y., $91,464.

Road No. 1064, Erie County, 4.03 miles. COLD SPRING CONSTRUCTION CO., Buffalo, N. Y., $53,080.

Road No. 1067, Erie County, 4.08 miles. All bids were rejected.

Road No. 1066, Erie County, 6.58 miles. RICH CONSTRUCTION CO., INC., Holley, N. Y., $145,040.

Road No. 1217, Madison County, 3.19 miles. PADDLEFORD & KING, Sherburne, N. Y., $25,094.

Road No. 1216, Madison County, 1.87 miles. PADDLEFORD & KING, Sherburne, N. Y., $15,614.

Road No. 5522, Monroe County, 3.97 miles. C. O. McCOMB, Syracuse, N. Y., $39,699.

Road 5521, Oneida County, 5.7 miles. J. G. HAYES, Hornell, N. Y., $58,221.

Road No. 5278 A, Rensselaer County, 3.66 miles. GIFFORD CONSTRUCTION CO., Jamaica, N. Y., $42,402.

Road No. 1215, Schoharie County, 4.16 miles. GEORGE H. MacAVOY, Creek Locks, N. Y., $30,667.

Road No. 5286 A, Schoharie County, 0.62 mile. WERA & GASPARY, 166 Madison Ave., Albany, N. Y., $9972.

Road No. 986, Sullivan County, 10.7 miles. BRIDGEPORT CONSTRUCTION CO., Poughkeepsie, N. Y., $101,315.

Road No. 5506, Broome County, 1.27 miles. PADDLEFORD & KING, Sherbourne, N. Y., $58,529.

Road No. 1145, Onondaga County, 0.76 miles. All bids were rejected.

Road No. 5524, Herkimer County, 5.27 miles. STANLEY CONSTRUCTION CO., Buffalo, N. Y., $47,533.

Noted Oct. 15 and Nov. 5.

Little Falls, N. Y.—At the general election the citizens voted in favor of issuing $50,000 in bonds for paving.

New York, N. Y.—(Borough of Manhattan)—(Official)—The following bids were received, Nov. 11, by Marcus M. Marks, Borough Pres., for repaving Ave. D from Fifth to Eighth St. with sheet asphalt and granite block pavement on concrete foundations: Uvalde Asphalt Co., $21,764; Barber Asphalt Paving Co., $22,719; Sicilian Asphalt Paving Co., $23,209; Aztec Asphalt Co., $20,614. For repaving Washington Place from Broadway to Washington Sq. with wood block on concrete foundation: Mack Bros. Contracting Co., $8529; Barber Asphalt Paving Co., $9332; J. Leopold & Co., Inc., $8244; M. J. Fitzgerald, $8036. For paving 191st St. from Audubon to Wadsworth Ave. with sheet asphalt on concrete foundation: Barber Asphalt Paving Co., $6983; Asphalt Paving Co., $5383; Uvalde Asphalt Co., $5303. Noted Nov. 5.

(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Pres. of the Bronx, until 10:30 a.m., Nov. 30, for improving Park St. from East 149th St. to Westchester Ave. and Park Ave. from 144th St. to Morris Ave.

(Borough of Richmond)—Bids were received, Nov. 10, by the Borough President, for repaving Richmond Turnpike between Cebra Ave. and Louis St. and a portion of Innes St. with granite block. Joseph Johnson's Sons, West New Brighton, N. Y., submitted the lowest bids at $15,298 and $4339, respectively.

Whitehall, N. Y.—At the general election the citizens voted to pave Broad, South Canal and Canal St. with brick. The estimated cost is $33,000.

Camden, N. J.—The City Council has passed an ordinance providing for the paving of Division and Sixth St. with belgian block on a 4-in. concrete foundation. W. D. Brown is City Clk.

✚**Millburn, N. J.**—The contract for constructing a concrete road on Springfield Ave. has been awarded to the FRANKLIN CONSTRUCTION CO., Hudson St., New York, N. Y.

Newark, N. J.—The Board of Works plans to pave Smith St., from South Orange Ave. to the East Orange line, with bitulithic pavement.

Newton, N. J.—The State Road Department has had surveys made by Harvey Snook, County Engr., for the construction of a new macadam road from Layton to Dingmans, Penn.

Princeton, N. J.—The Street Committee of the City Council plans to improve Nassau St., from Bayard Lane to Washington St., with bitulithic or other asphalt pavement on concrete foundation.

✚**Trenton, N. J.**—The State Road Department has awarded contracts to JOHN L. LA COMPTE, Egg Harbor City, and RICHARD HAFEMAN, Freehold, for five sections and one section, respectively, of improvements to state roads with gluterin road binder, at a total cost of about $100,000. The highways to be improved cover the following districts: Matawan, Freehold, Lakewood, Toms River, West Creek, Manahawkin, Tuckerton, Bass River, Chestnut Neck, Absecon, Egg Harbor, Hammonton and Berlin.

✚**Harrisburg, Penn.**—The following bids were received, Nov. 10, by the State Highway Department for road construction: Washington County, Cecil Township, 12,829 ft., asphaltic concrete 11,329 ft., brick block paving 1500 ft. Dwyer & Co., Philadelphia, $61,963; SAMUEL GAMBLE CO., Carnegie, $57,500 (awarded contract); Ridge Bros. Co., Pittsburgh, $62,966; W. C. Evans, Ambler, $67,274; Duquesne Contracting Co., Pittsburgh, $62,831; Bell-Bockel Co., Inc., Altoona, $61,678; South Shore Construction Co., Erie, $68,250; R. H. Cunningham & Sons, Turtle Creek, $59,897.

Jefferson County, Brookville Borough, 2400 ft. brick block paving. E. M. Love & Son, Corry, $13,624; Hoblitzell & Price, Meyersdale, $10,976; P. E. McGovern Co., Punxsutawney, $15,415; H. E. Bunce, Olean, N. Y., $11,922; George I. Thompson & Co., Clearfield, $13,800; THOMPSON & MATSON, Brookville, $10,076 (awarded contract); Northwestern Construction Co., Franklin, $12,937.

Beaver County, Moon and Hopewell Townships, 13,195 ft. brick block paving. Ridge Bros. Co., Pittsburgh, $82,235; National Supply & Construction Co., Ellwood City, $81,354; J. G. McGuire & Co., New Brighton, $83,752; R. B. Taylor, Bellefonte, $90,188; South Shore Construction Co. Erie, $90,018; F. J. Erbeck, Homestead, $93,479; McCrady Bros., Braddock, $99,744; Foley Contracting Co., Pittsburgh, $91,324; Bell-Bockel Co., Inc., Altoona, $89,335; John L. Elder, Ebensburg, $86,597; R. D. Hunter & Co., Beaver, $82,304; Duquesne Contracting Co., Pittsburgh, $89,595; W. C. Evans, Ambler, $84,433; Rinehart Bros., East Liverpool, Ohio, $83,804; SOMERSET

CONTRACTING CO., INC., Somerset, $79,597 (awarded contract); Matthew Ott & Co., Pittsburgh, $80,531.

Chester County, Penn Township, 6662 ft. asphaltic bituminous macadam. Penetration method. D. E. O'Connell & Son, Avondale, $21,153; Corcoran Construction Co., West Chester, $18,283; Hollingsworth & McDowell, Marshallton, Del., $22,372; Dwyer & Co., Philadelphia, $21,607; Ambler-Davis Co., Philadelphia, $18,791; Ernest Palmer, Wallingford, $21,651; O. W. Rackle, Providence, R. I., $23,852; George C. Souder, Lancaster, $19,697; M. BENNETT & SONS, Indiana, $17,994 (awarded contract); B. F. Wickersham, Kennett Square, $25,182; Charles H. Dunleavy, Coatesville, $20,272; Paul J. Snyder & Co., Philadelphia, $21,662; D. Webster Anders, Philadelphia, $19,440; M. & T. E. Farrell, West Chester, $20,069; W. C. Evans, Ambler, $21,978; Ryan Bros., Coudersport, $26,361; Morris Construction Co., Philadelphia, $20,413. Noted Oct. 22.

Miner's Mills, Penn.—See item under "Water Supply and Irrigation."

Pittsburgh, Penn.—The City Council has voted to pave Kennedy Ave., Crombie, Herschel, Reed and Landwehr St.

★**Petersburg, Va.**—(Official)—Bids will be received until noon, Nov. 30, for 13,000 yd. of paving on East Bank and Halifax St. with creosoted block and 500 yd. on Old and Short Market St. with granite block. J. R. Jones is Ch. of St. Comn. and P. G. Bunting is Clk. of St. Comn. For particulars, see advertisement under "Contracts to Be Let."

Asheville, N. C.—Bids will be received by Charles H. Neal, Rd. Engr., until Dec. 6, for constructing seven miles of 16-ft. bituminous macadam road.

Warrentown, N. C.—Bids will be received by the County Commissioners until Dec. 7, for the sale of $20,000 in bonds for constructing roads.

Apalachicola, Fla.—Bids will be received by the County Clerk until Nov. 23, for the sale of $20,000 in bonds for constructing roads.

Jacksonville, Fla.—(Official)—Bids will be received by the Board of Trustees until 8 p.m., Nov. 23, for improving a section of the Boulevard.

★**Manatee, Fla.**—(Official)—See item under "Water Supply and Irrigation."

✚**Camden, Ala.**—The contract for grading, draining and surfacing a section of the Camden and Millers Ferry Rd. has been awarded to D. R. COOK & CO., Selma, Ala., at $11,867. Noted Oct. 15.

✚**Gadsden, Ala.**—The contract for improving Walnut St. has been awarded to C. O. DUNCAN, at $5130.

Manchester, Tenn.—An election will be held, Dec. 5, to vote on the question of issuing $12,000 in bonds for road construction.

Grayson, Ky.—At a recent election the citizens of Carter County have voted in favor of issuing $150,000 in bonds for road construction.

Cheviot (Cincinnati post office), **Ohio**—(Official)—Bids will be received by Albert J. Reusing, Village Clk., until noon, Dec. 2, for improving Glenmore Ave. from Woodbine Ave. to the North Corporation line.

✚**Cincinnati, Ohio**—A contract for improving Miles Rd. has been awarded to O. E. ROBINSON, Cincinnati, at $8007.

Fostoria, Ohio—At the general election, the citizens of Jackson Township voted in favor of issuing $50,000 in bonds for improving roads.

McArthur, Ohio—The City Council has sold $9000 in bonds for constructing a number of macadam streets.

Martins Ferry, Ohio—(Official)—Bids will be received by Brock Brown, Dir. Pub. Ser., until noon, Nov. 23, for paving Center St. from Clark to First St. G. H. Harris is Clk. of the Dept.

Wapakoneta, Ohio—The low bidders for paving Perry and Main St. with asphaltic concrete were Toy & Mulligan, Lima, at $22,000. Noted Oct. 22.

Washington, Ohio—(Official)—Bids will be received by the Director of Public Service, until noon, Nov. 28, for improving North St. from East St. to Gibbs Ave. Ray Maddox is Clk.

Indiana—(Official)—Bids will be received as follows for road improvements in Indiana:

Brownstown, until 1:30 p.m., Dec. 7, by the Commissioners of Jackson County, for constructing a gravel road in Grassy Fork Township. Albert Leudtke is Audr.

Williamsport, until 9 a.m., Dec. 7, by the Commissioners of Warren County, for constructing a road in Pine Township. D. H. Moffit is Audr.

Rochester, until 2 p.m., Dec. 8, by the Commissioners of Fulton County, for constructing two roads in Union Township an done in Rochester Township. W. C. Miller is Audr.

Kokomo, until 10 a.m., Dec. 8, by the Commissioners of Howard County, for constructing a road in Center Township. E. B. Swift is Audr.

✚**Corydon, Ind.**—A contract for constructing a road in Harrison Township has been awarded to JOHN DE CHAMP at $7310.

✚**Monticello, Ind.**—A contract for constructing a road in Union Township has been awarded to O. E. SHAFER, Royal Center, Ind. Noted Oct. 29.

Danville, Ill.—At the general election the citizens of Vermillion County voted in favor of issuing $1,500,000 in bonds for constructing 175 miles of brick or concrete roads.

✚**Peru, Ill.**—A contract for paving a section of Grant St. has been awarded to TROMPETER & SONS, at $8500.

✚**Mankato, Minn.**—A contract for constructing state highway No. 2 has been awarded to J. SAMPSON & CO., Sioux Falls, S. D., at $46,538. Other bids were: Stevens Bros., St. Paul, $48,405; Frederick & Barnard, Minneapolis, $48,623.

Atchison, Kan.—(Official)—Bids will be received by C. M. Volker, County Clk., until noon, Nov. 21, for improving a section of the Leavenworth Branch Rd.

Houston, Tex.—Plans are being prepared by E. E. Sands, City Engr., for paving West Alabama St. from Main to San Jacinto St.

Bids will be received by H. L. Washburn, County Audr., until 10 a.m., Nov. 28, for grading approaches to the San Jacinto Bridge. Approximately 4000 yd. are to be paved.

Tulsa, Okla.—Plans are being prepared by E. C. Hughes, City Engr., for macadamizing 10 blocks in West Tulsa. The estimated cost is $12,000.

✚**Phœnix, Ariz.**—(Official)—A contract for extending one mile of highway from Kingman, Mohave County, has been awarded to F. O. B. KINGMAN at $8281.

✚**Fresno, Calif.**—(Official)—A contract for constructing a section of the Dunlap Cutoff Rd. has been awarded to C. M. BAKER, Reedley, Calif., at $4700. The only other bid was that of W. F. Jones, $6200. Noted Oct. 29.

✚**Los Angeles, Calif.**—See item under "Sewers."

✚GEORGE R. CURTIS, 552 South St. Louis St., has been awarded the contract at $56,879 for improving Santa Barbara Ave. from Budlong Ave. to the west city boundary.

Pasadena, Calif.—Bids will be received by Herman Dyer, City Clk., until 9 a.m., Nov. 24, for constructing 35,000 sq.ft. of 5-in. oil macadam pavement on Glenarm Ave. from Raymond to Maringo Ave.

Pomona, Calif.—The City Council contemplates paving nine miles of streets.

✚**Santa Ana, Calif.**—MAX HUBERMAN has been awarded the contract, at $20,584, for constructing Sect. 3 of Talbert Rd.

Susanville, Calif.—An election will be held Nov. 23, to vote on the question of issuing $10,000 in bonds for street and bridge improvements.

Yuba City, Calif.—Bids will be received some time in December by the Board of Supervisors of Sutter County for constructing a concrete macadam road from Yuba City to the northern end of the county.

INDUSTRIAL WORKS

Boston, Mass.—Plans have been completed by F. A. Norcross, for a four-story brick building for manufacturing purpose, at 889 Washington St., for Esther Lewis. The estimated cost is $80,000.

The Sears Roebuck Co., Chicago, Ill., contemplates constructing a factory on Walpole St.

✚**Holyoke, Mass.**—The Farr Alpaca Co. has awarded a contract to DANIEL O'CONNELL'S SONS, for an addition to its plant on Jackson St. The estimated cost is $15,000.

✚**Worcester, Mass.**—The contract for the construction of the one-story warehouse, 40x120 ft., for the Worcester Woolen Mills, has been awarded to the E. J. CROSS CO., Foster St., Worcester, Mass.

Bids are being received by Henry N. Tyler, New York, for a garage at 185 Commercial St., for the H. H. Bigelow Estate. It will be three stories, 50x125 ft. of brick and reinforced concrete.

✚(Official)—The contract for the construction of the warehouse for the Robertson Electric Construction Co. has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York. It will be three stories and basement, 340x115 ft.

Baldwinsville, N. Y.—Plans are being completed for rebuilding the paper mill of R. S. Hoffman, recently destroyed by fire.

✚**Buffalo, N. Y.**—The contract for the construction of the boiler house and dryer building for the Superior Elevator Co., on the Buffalo River, has been awarded to the MONARCH ENGINEERING CO., Buffalo.

✚**Elmira, N. Y.**—The contract for the addition to the plant of the Thatcher Mfg. Co., Grand Central Ave., has been awarded to the W. R. COMPTON REALTY & BUILDING CO. The estimated cost is $125,000.

New York, N. Y.—(Borough of Bronx)—The Liberty Glace & Netting Works, East 228th St. and Bronxwood Ave., will construct a two-story factory and a 50x110-ft. addition.

L. C. Holden, Arch., 103 Park Ave., is preparing plans for a nine-story, 79x159-ft. warehouse, to be constructed at 1922 Webster Ave., for the Dochtermann Van & Express Co.

✚**Peekskill, N. Y.**—The general contract for the construction of the laboratory building at the plant of the Fleischmann Mfg. Co., has been awarded to the DRUMM CONSTRUCTION CO. Noted Sept. 24.

Penn Yan, N. Y.—The Barden & Robinson Basket Co. will build a factory, 72x100 ft. The estimated cost is $50,000.

✚**Syracuse, N. Y.**—The general contract for the construction of a two-story machine shop for the Le Fevre Arms Co., has been awarded to DAWSON BROS.

✚**Camden, N. J.**—(Official)—The foundation contract for the building for the Victor Talking Machine Co. has been awarded to the RAYMOND CONCRETE PILE CO. Noted Sept. 24.

Cranford, N. J.—George Damon & Sons, 44 Beekman St., New York, plan to construct two brick and concrete factories at Cranford. S. K. Townley, Bridge St., Newark, is the Arch.

Harrison, N. J.—Bids are being received by C. P. Baldwin, Arch., 45 Clinton St., Newark, for constructing a factory for the Calculagraph Co. It will be two stories, of reinforced concrete, 50x100 ft. Estimated cost, $20,000.

Milton, Penn.—The Milton Brick Co. will construct an addition to its plant. The estimated cost is $35,000.

Philadelphia, Penn.—M. Patterson, 2203 Pearl St., will build a two-story and basement factory, 26x100 ft.

Pittsburgh, Penn.—The H. E. Goss Co., Pittsburgh, will construct a five-story factory to cost $20,000.

York, Penn.—H. L. Newman, York, Penn., will construct a two-story brick factory, 65x100 ft.

Wilmington, Del.—Joseph Cancraft & Sons Co. will build a two-story plant, 48x140 ft. The estimated cost is $25,000.

Baltimore, Md.—Plans have been completed for an addition to the plant of the Atlantic Fertilizer Co. at Curtis Bay. The estimated cost is $100,000.

Plans are being prepared by George R. Callis, Jr., Arch., for a two-story packing plant at Exeter and Lombard St., for the Consolidated Beef & Provision Co.

✚Richmond, Va.—The contract for the construction of the blacksmith and hammer shop for the American Locomotive Co., 30 Church St., New York, has been awarded to the LACKAWANNA BRIDGE CO., Lackawanna, N. Y. The estimated cost is $100,000.

Buckhannon, W. Va.—T. M. De Barr and C. R. Legge will construct a one-story brick excelsior factory. The estimated cost is $35,000.

Clarksburg, W. Va.—The Pittsburgh Plate Glass Co. will erect a plant at Clarksburg, W. Va. The estimated cost is $250,000.

Kannapolis, N. C.—Plans have been completed for an addition to the towel and crash plant of the Cannon Mfg. Co.

Cheraw, S. C.—The Hickson Lumber Co. will rebuild its plant, recently destroyed by fire. The estimated cost is $10,000.

Logtown, Miss.—The H. Weston Lumber Co. will rebuild its plant, recently destroyed by fire.

Canton, Ohio—The Franklin Co., recently incorporated, contemplates constructing a plant to cost $10,000. J. E. McClain, I. M. Painter, H. A. Staley are interested.

Cleveland, Ohio—The Cohn-Goodman Co., 1140 West Sixth St., contemplates constructing a brick and reinforced-concrete factory at Payne and East 23d St. Estimated cost, $250,000. Construction will start in the spring.

Zanesville, Ohio—The Ohio Sanitary Packing Co., recently incorporated with a capital of $300,000, contemplates constructing a packing plant. J. T. Lang is interested.

Detroit, Mich.—Plans are being prepared for the construction of a six-story brick and steel store and factory on Larned St., for the Bagley Land Co.

Chicago, Ill.—The Standard Oil Co. has purchased a site on the Chicago River, between Hawthorne St. and the right-of-way of the Chicago, Milwaukee & St. Paul R.R., for the construction of a distributing plant.

Chicago, Ill.—Alexander Bauer has purchased a site, 50x109 ft., on Whiting St., for the construction of a seven-story and basement, 50x109-ft. manufacturing plant and warehouse.

Denverside (East St. Louis post office), **Ill.**—Plans are being prepared for the Southern Ry. Co. for the construction of terminal facilities, estimated to cost $273,000. The plans include an 18-stall roundhouse, 90-ft. turntable, coal and cinder-hauling plant, machine shop and additional machinery.

Milwaukee, Wis.—Bids soon will be received by Henry Totter, Arch., 304 West Water St., for the construction of a two-story and basement, 70x90-ft., reinforced-concrete storage building for Cudahy Bros. Packing Co., at Locust and Bremen St. Estimated cost, $25,000.

Racine, Wis.—Plans are being revised for the construction of a warehouse on Main St., for Andrew Matson. Estimated cost, $20,000. C. H. Tharinger, 2324 State St., Milwaukee, is the Arch. Noted Oct. 15.

Opheim, Mont.—The Nordman-Jacobson Lumber Co., recently incorporated with a capital of $40,000, plans to construct a sawmill near Opheim.

Beaumont, Tex.—J. Edgar Pew, Tulsa, Okla., has purchased a site for the construction of an oil refinery.

Grants Pass, Ore.—The Moon Williams Lumber Co. contemplates constructing a sawmill at Grants Pass.

Portland, Ore.—Plans are being prepared by MacNaughton & Raymond, Archs., Title & Trust Bldg., for the construction of a four-story and basement factory for the Blake-McFall Paper Co. Estimated cost, $90,000.

Salem, Ore.—George D. Pierce, Rockwood, Maine, contemplates constructing an excelsior mattress factory at Salem.

East San Pedro, Calif.—The Crescent Wharf & Warehouse Co., recently destroyed by fire, with a loss of $50,000, contemplates reconstructing its plant.

El Centro, Calif.—A. E. Long & Co. contemplate constructing a packing plant. The first unit will cost $30,000.

Oakland, Calif.—The Beckins Van & Storage Co. contemplates constructing an eight-story, reinforced-concrete warehouse on San Pablo Ave. and 22d St. Estimated cost, $150,000.

Trenton, Ont.—The Trenton Cooperage Mills, Ltd., is contemplating the reconstruction of its plant at Deer River, Ont. Estimated cost, $12,000.

FEDERAL GOVERNMENT WORK

Elevators—Bangor, Maine—The following bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for installing an electric passenger elevator and a hydraulic freight lift in the U. S. post office at Bangor. A. B. See Electric Elevator Co., New York, N. Y., $5800. Kaestner & Hecht Co., Chicago, Ill., $4473; Portland Co., Portland, Maine, $5065; Otis Elevator Co., Washington, D. C., $4640. Noted Oct. 22.

✚Ship Building Ways, Etc.—Boston, Mass.—The contract has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of shipbuilding and launching ways at the Boston Navy Yard, to CRANDALL ENGINEERING CO., 102 Borden St., East Boston, Mass., at $62,321. Noted Oct. 8 and Oct. 29.

Dredging—New London, Conn.—Bids will be received by Maj. G. B. Pillsbury, U. S. Engineer office, New London, until 2 p.m., Dec. 29, for dredging in the Thames River.

✚Roof Repairs—Buffalo, N. Y.—The contract for repairs to roof at the U. S. post office has been awarded to the BUFFALO CAREY CO., Buffalo, N. Y., at $7000.

✚Dredging—New York, N. Y.—Bids will be received by Col. Frederick V. Abbott, Army, Bldg., 39 Whitehall St., New York, until noon Dec. 2, for dredging in Staten Island Sound, N. Y. and N. J.

Roads—West Point, N. Y.—Bids will be received until noon Dec. 1, by the Quartermaster, for resurfacing the main roads from South Dock to the south end of the military reservation.

Jacks, Lock Gates, Etc.—Pittsburgh, Penn.—Bids will be received until noon, Dec. 17, by Lieut. Col. Francis R. Shunk, U. S. Engineer Office, Pittsburgh, for furnishing and delivering riverwall valve jacks, lock gate engines and gate operating gearing for Dam No. 10, Ohio River.

Grading—Washington, D. C.—The following bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for grading grounds and roads at the Hygienic Laboratory, Washington, D. C.: (a) for grading grounds and roads in accordance with plans No. 1-A; (b) No. 1-B. Whiting-Turner Construction Co., Baltimore, Md., (a) $11,000; (b) $13,000. Sidney L. Hechinger Co., Washington, (a) $8394; (b) $13,500. Charles H. Tompkins, Washington, D. C., (a) $5300; (b) $7800. John H. Nolan Construction Co., Washington, D. C., (a) $7353; (b) $9000. R. J. Beall Construction Co., Washington, D. C., (a) $8500, (b) $11,500. L. M. Johnston, Arlington, Va., (a) $7500; (b) $11,700.

Buildings—Washington, D. C.—The following bids were received by the Superintendent, U. S. Coast and Geodetic Survey, Washington, for the construction of two buildings: (a) one-story building; (b) two-story building. Arthur M. Poynton, Washington, D. C., (a) $4860; (b) $7320. L. A. Gaskins & Son, Washington, D. C., (a) $4583; (b) $7325. Charles A. Langley, Washington, D. C., (a) $4207; (b) $7995. William E. Mooney, Washington, D. C., (a) $4500; (b) $7168. James L. Marshall, Washington, D. C., (a) $4500; (b) $6700. Walter P. Avery, Washington, D. C., (a) $4873; (b) $7593. R. P. Whitty Co., Washington, D. C., (a) $4428; (b) $6985. H. J. Montgomery, Washington, D. C., (a) $4693; (b) $7300. Skinker & Garrett Co., Washington, D. C., (a) $4880; (b) $7168. Noted Nov. 5.

Building—Arlington, Va.—Bids will be received until 11 a.m., Dec. 7, at the Executive Office, Arlington Memorial Amphitheater Commission, for the erection of a memorial amphitheater and chapel in the Arlington National Cemetery.

✚Earthwork—Vicksburg, Miss.—The contract for constructing about 267,000 cu.yd. of earthwork in this district has been awarded to R. T. CLARK & CO., Natchez, Miss. Noted Nov. 5.

Levee Work—Memphis, Tenn.—The following bids were received by the Mississippi River Commission for constructing about 3,341,000 cu.yd. of levee work in the Upper and Lower St. Francis and White River levee districts: Lacy Bros., Arkansas City, Ark., (d) White River levee district, $129,086, (e) grand total), $129,086; R. T. Clark & Co., Natchez, Miss., (d) $126,470, (e) $126,470; Jackson & Barber, Natchez, Miss., (c) Lower St. Francis levee district, $274,036, (e) $274,036; R. L. Leonard, Memphis, Tenn., (a) Upper St. Francis levee district, $50,375, (b) Dike on Slough Landing Neck, $106,470, (c) $263,571, (d) $127,680, (e) $548,096; M. C. Connors & Co., Chicago, Ill., (a) $54,969, (c) $68,700, (e) $123,669; J. M. Sullivan, New Orleans, La., (d) $109,606, (e) $109,606; Sessions & Dulaney, Grace, Miss., (a) $51,753, (b) $114,497, (c) $229,422, (d) $110,459, (e) $506,132; Robert Nicholson & Co., Lake Providence, La., (a) $47,755, (c) $136,154, (e) $183,909; Martin Jennings, Memphis, Tenn., (d) $93,700 (e) $93,700; J. A. Burt, Gunnison, Miss., (d) $16,409, (e) $16,409; S. R. Hughes Construction Co., Greenville, Miss., (c) $63,600, (d) $44,325, (e) $107,925; C. C. Aderholdt, Rosedale, Miss., (c) $28,200, (d) $7200, (e) $35,400; Bondurant & Callahan, Hickman, Ky., (a) $60,670, (b) $109,850, (e) $170,520; Aderholdt Bros., Rosedale, Miss., (d) $29,100, (e) $29,100; W. T. & E. M. Lowrance & Co., Memphis, Tenn., (a) $51,987, (b) $109,005, (c) $204,145, (d) $121,672, (e) $486,809; Holloway, Lee & Brown, Charleston, Mo., (a) $66,092, (e) $66,092; Bondurant, Cheshire, Jackson & Barber, Hickman, Ky., (d) $116,010, (e) $116,010; Bondurant, Callahan & Cheshire, Hickman, Ky., (c) $275,952, (e) $275,952; Denison & Rodgers Bros., Memphis, Tenn., (a) $51,987, (b) $103,512, (c) $271,574, (e) $427,073; Hannan, Hickey Bros. Contracting Co., Memphis, Tenn., (d) $45,600, (e) $45,600; E. A. Stacy, Greenville, Miss., (b) $111,962, (c) $59,140, (d) $29,150, (e) $200,252; Roach, Stansell, Lowrance Bros. Co., Memphis, Tenn., (a) $53,196, (b) $109,005, (c) $264,008, (d) $129,800, (e) $556,009; Daniel Sweeney, St. Thomas, Ark., (c) $23,375, (e) $23,375; Linnan Bros. & F. T. Constant, Alexandria, La., (a) $51,987, (b) $104,780, (c) $308,641, (d) $145,549, (e) $610,956; M. Tansey, Arkansas City, Ark., (d) $136,409, (e) $136,409; H. B. Blanks Levee Co., Vicksburg, Miss., (b) $117,455, (e) $117,455; P. M. Johnston & Co., St. Elmo, Ill., (b) $138,573, (e) $178,573; Turner & McCarter, Memphis, Tenn., (c) $26,400, (e) $26,400; C. G. Oglesby, Memphis, Tenn., (b) $109,765, (c) $47,970, (e) $157,735; E. J. Scott, St. Louis, Mo., (a) $58,032, (b) $124,215, (e) $182,247. Noted Oct. 29.

✚Levee Work—Memphis, Tenn.—Contracts have been awarded as follows by Maj. E. M. Markham, Corps Engrs., U. S. A., Mississippi River Commission, First and Second Districts, Memphis, Tenn., covering 3,341,000 cu.yd. in Upper St. Francis Levee District to ROBERT NICHOLSON & CO., Lake Providence, La., at 11.85c. per cu.yd., 845,000 cu.yd. on Slough Landing Neck, Tenn., to DENNISON AND ROGERS BROS., Memphis, Tenn., at 12¼c. per cu.yd. In the Lower St. Francis District: 205,000 cu.yd., to LINNAN BROS. AND F. T. CONSTANT, Alexandria, La., at 13.4c. per cu.yd. 170,000 cu.yd., to DANIEL SWEENY, St. Thomas, Ark., at 13¾c. per cu.yd. 175,000 cu.yd. at 14c.; 200,000 cu.yd., at 14.85c. per cu.yd. to W. T. & E. M. LOWRANCE & CO., Memphis, Tenn. 284,000 cu.yd. at 15½c.; 95,000 cu.yd. at 16½c.; 148,000 cu.yd. at 18.4c.; 77,000 cu.yd. at 18.85c.; to R. L. LEONARD, Memphis, Tenn. 300,000 cu.yd. at 15.7c. to BONDURANT, CALLAHAN & CHESHIRE, Hickman, Ky. In the White River Levee District: 40,000 cu.yd. at 15.38c.; 272,000 cu.yd. at 16.23c.; 100,000 cu.yd. at 16.4c.; 110,000 cu.yd. at 18.24c.; 150 cu.yd., at 15.23c., to J. M. SULLIVAN, New Orleans, La. Noted Oct. 29.

Post Office—Canton, Ill.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Canton, (a) limestone; (b) sandstone: Thomas W. Cissel, Wooster, Ohio, (a) $59,600; (b) $61,000. James Devault, Canton, Ohio, (a) $62,-980; (b) $63,200. George W. Stiles Construction Co., Chicago, Ill., (a) $63,286. Westchester Engineering Co., White Plains, N. Y., (a) $64,315; (b) $66,840. William O'Neill & Son Co., Faribault, Minn., (a) $64,650. J. H. Wisse, Omaha, Neb., (a) $65,650. Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $66,567. Noted Oct. 8.

★**Dredging**—Chicago, Ill.—The following bids were received for dredging in the Chicago River, Ill.: Greiling Bros. Co., Green Bay, Wis., $36,540; FitzSimons & Connell Dredge & Dock Co., Chicago, Ill., $31,363; Great Lakes Dredge & Dock Co., Chicago, Ill., $29,942; Byrne Bros. Dredging & Engineering Co., Chicago, Ill., $35,525. Noted Oct. 22.

✚**Building**—Milwaukee, Wis.—The contract for the construction complete, of the U. S. appraiser's stores at Milwaukee, has been awarded to the NORTHERN CONSTRUCTION CO., Milwaukee, Wis., using limestone for all stonework, except where granite is required at $89,822.

★**Elevator**—Minot, N. D.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 14, for the installation complete of an electric passenger elevator in the U. S. post office and courthouse at Minot.

★**Jetty Work**—Sabine Pass, Tex.—Bids will be received at the U. S. Engineer Office, Dallas, Tex., until noon, Dec. 12, for jetty work at Sabine Pass. J. H. Jackson is Mayor.

Sewer Systems—Lawton, Okla.—The following bids were received at the Interior Department, Washington, D. C., for sewer construction in the north addition of Lawton: L. J. Roach, Tulsa, Okla., $33,280; Intermountain Bridge & Construction Co., Tecumseh, Neb., $43,760; Mayfield & Shaw, Fort Bliss, Tex., $27,308; Charles H. Shaw, Lawton, Okla., $31,931; O'Neil Construction Co., Leavenworth, Kan., $30,150; F. W. Keeney & Co., Oklahoma City, Okla., $64,453; Standard Construction Co., St. Joseph, Mo., $38,968; Spencer J. Wick, El Reno, Okla., $32,868; E. R. Kerby, Lawton, Okla., $29,857; W. D. Lovell, Minneapolis, Minn., $36,997. Noted Oct. 22.

Canal Work—Benton City, Wash.—The following are the bids received for the construction of about 13¼ miles of main canal extension of the Sunnyside Canal, near Benton City. Valley Construction So., North Yakima, $91,625; Oregon Bridge & Construction Co., Portland, Ore., $87,653; Nettleton Bruce & Eschbach, Seattle, $99,720; Consolidated Contract Co., Portland, $96,239; George P. Wright, Tacoma, $91,093; McDonald & McGuire, $197,973; Grant, Smith & Co., Seattle, $96,128. Noted Oct. 8.

Hull—Portland, Ore.—The following bids were received for the construction of a wooden hull to be used as a combination dredge and snagboat: Willamette Iron & Steel Works, Portland, Ore., $29,825; Joseph Suple, Portland, Ore., $35,044; Portland Iron Works, Ore., $39,715; Wilson Bros., Astoria, Ore., $36,440; Hall Bros., Winslow, Wash., $42,483. Noted Oct. 29.

Repairing and Docking Light Vessel—Portland, Ore.—The following bids were received by the Light House Inspector, for repairing and docking light-vessel No. 67: (a) necessary items; (b) optional items. Hall Bros., Marine Ry. & Shipbuilding Co., Winslow, Wash., (a) $25,849; (b) $2310. Seattle Construction & Dry Dock Co., Seattle, Wash., $19,920; (b) $1465.62. Willamette Iron & Steel Works, Portland, Ore., (a) $15,014; (b) $1721. Puget Sound Navy Yard, Bremerton, Wash., (a) $20,384; (b) $2461.

Post Office—The Dalles, Ore.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at The Dalles, (a) limestone; (b) sandstone; (c) any local stone: H. E. Doering, Portland, Ore., (a) $81,394; (b) $80,974; (c) $81,218. A. W. Kutsche, Portland, Ore., (a) $80,160; (b) $79,-960; (c) $80,960. George W. Stiles Construction Co., Chicago, Ill., (a) $82,613; (b) $81,613. J. L. Murphey & Sons, Tacoma, Wash., (a) $82,989; (b) $81,837; (c) $82,809. John Almeter, Portland, Ore., (a) $78,415; (b) $76,915. R. E. Campbell, Salt Lake City, Utah, (a) $79,468; (b) same: (c) $80,500. Palmberg & Mattson, Astoria, Ore., (a) $87,990; (b) $86,990; (c) $87,990. George Isaakson, Portland, Ore., (a) $76,000; (b) $73,-978. Shanan-Blair Co., Portland, Ore., (a) $80,380; (b) $77,680. Pearson Construction Co., Seattle, Wash., (a) $85,500; (b) $85,320; (c) $82,930. Welch Bros & Hannaman, Grass Valley, Calif., (a) $80,698; (b) $79,539; (c) $80,200. Frederick A. Erixon, Salem, Ore., (a) $85,321; (b) $76,300 (c) $95,399. Sound Construction & Engineering Co., Seattle, Wash., (a) $82,034; (b) $82,660; (c) $82,784. Noted Oct. 8.

✚**Ward Pavilions**—Mare Island (Vallejo post office), Calif.—The contract has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of ward pavilion at the Naval Hospital, Mare Island, to GUTLEBEN BROS., San Francisco, Calif., at $23,020. Noted Oct. 8 and Nov. 12.

✚**Building**—San Juan, Porto Rico—The contract for the construction of a radio building and operators' quarters at San Juan, has been awarded to A. GUERINI, San Juan, at $6151. Noted Sept. 3 and Oct| 22.

MISCELLANEOUS

Motor Ambulances—Boston, Mass.—Bids will be received, until Nov. 27, by the City Hospital Department, for furnishing two gasoline propelled ambulances. Frank H. Holt, M. D., is Act. Supt.

✚**Motor Fire Apparatus**—Boston, Mass.—The city has awarded a contract to the AMERICAN & BRITISH MFG. CO., at $16,610, for furnishing the fire department with three water tower tractors. John Grady is Fire Comr.

Quay Wall—Pawtucket, R. I.—(Official)—The State Harbor Improvement Commission will receive bids, until Nov. 24, for the construction of a 700-ft. granite quay wall on the easterly side of the Pawtucket River. William D. Bullock is the Engr. Noted Oct. 22 and Nov. 12.

Guard Railing—Hartford, Conn.—Bids will be received by the Highway Commissioner, until 2 p.m., Nov. 30, for constructing 29,000 lin. ft. of wood guard railing in the following towns: Avon, Canton, Ellington, Somers, Stafford, Willington, Columbia, Groton, North Branford, East Haven, Hamden, Orange, Naugatuck, Bethlehem and Southbury. Specifications on file at the office of the Highway Commission.

★**Exhibit Cases and Electric Wiring**—Albany, N. Y.—(Official)—Bids will be received by John H. Finley, Comr. Education, Education Bldg., Albany, until 3 p.m., Dec. 15, for furnishing cases for Iroquois Indian Exhibit; construction and electric wiring in the New York State Education Bldg., Albany. Drawings and specifications may be consulted at the New York office of the Department of Architecture, Room 1224 Woolworth Bldg., and at the Department of Architecture, Capitol, Albany, N. Y.

Creek Improvement—Albany, N. Y.—Duncan W. Peck, State Supt., Pub. Wks., will receive bids until noon, Nov. 24, for the improvement of Ellicott Creek at Tonawanda, Erie County. Estimated cost about $69,000.

✚**Dredging**—Albany, N. Y.—The Board of Contracts and Supply has awarded the contract for 65,500 cu.yd. of dredging in Albany basin, to the GREAT LAKES DOCK & DREDGE CO., Chicago, Ill., at 40c. per cu.yd. Frank R. Lanagan is City Engr. Noted Oct. 29.

Barge Canal Work—Albany, N. Y.—The following bids have been received by Duncan W. Peck, State Supt., Pub. Wks., for Contract G, furnishing and erecting the lock gates, valves and buffer beams for locks 2, 3 and 4 and needle beams for the spillway in Dam 2, also for the superstructure of the gates at Waterloo: Lupfer & Remick, Buffalo, $110,115; Sherman & Stalter, Cleveland, $112,012; Whitehead & Kales, Detroit, $112,290; J. J. & J. B. Mulholland Co., Pittsburgh, $119,587; Penn Bridge Co., Beaver Falls, Penn., $123,920. Larkin & Sangster, Seneca Falls, N. Y., $128,981.

✚The following bids were also received for Contract No. 10-C, filling portions of the abandoned Oswego Canal and the removal of a bridge over the abandoned canal at Oneida St., Fulton, N. Y.: S. R. ROSOFF, Herkimer, N. Y., $38,490 (awarded contract); Eastover Construction Co., Inc., Utica, $53,537; A. L. Anderson & Bro., Inc., Altoona, Penn., $47,608; Cleveland & Sons Co., Brockport, $51,137; State Highway Construction Co., Beacon, $43,459; I. M. Ludington's Sons, Inc., Rochester, $44,672; C. T. Hookway Construction Co., Syracuse, $52,909; Owen McNally, Oswego, $52,017; Lathrop, Shea & Henwood Co., Buffalo, $83,337; Chesley, Earl & Heimbach, Inc., Buffalo, $37,170; J. H. Gallup, T. C. Howry & Fred Pierce, Syracuse, $43,947; Flood & Van Wirt Co., Hudson Falls, $46,460; Carver Construction Co., Fulton, $48,009; E. W. Foley Contracting Corporation, New York, $39,501; Lupfer & Remick, Buffalo, $49,078; Roger B. Kennedy, Utica, $47,669; J. A. Culkins Co., Oswego, $43,667; Oswego Construction Co., Fulton, $44,058; Parker & Beebe, Waterford, $41,887; Richards & Gaston, New York, $43,652; Frederick D. Dutcher, Fulton, $52,152; Norton & Gorman Contracting Co., Brooklyn, N. Y., $46,377; Drilling Contracting Co., Albany, $53,371. Noted Oct. 15.

✚**Comfort Station**—Buffalo, N. Y.—The contract for the construction of a comfort station, in Lafayette Sq., has been awarded by the Park Commissioners, to the BISON CONSTRUCTION CO., at $15,638.

Bridge Alterations—New York, N. Y.—(Borough of Manhattan)—The Board of Aldermen has voted an appropriation of $45,000 for moving the cables on the Williamsburg Bridge. These changes are necessary to permit operation of the subway cars under the dual rapid transit contracts.

★**Subway Reconstruction**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The Public Service Commission for the First District, 154 Nassau St., New York, will receive bids, until Dec. 1, for the reconstruction of part of Section No. 9-C-1 of Route No. 9, a part of the Fourth Ave. Subway in Brooklyn. The work will include the installation of cross-overs and the partial reconstruction of the DeKalb Ave. station in Flatbush Ave. Extension.

★**Subway**—New York, N. Y.—(Borough of Manhattan)—(Official)—The Public Service Commission for the First District, 154 Nassau St., will receive bids until Dec. 11, for the construction of Section No. 4 of Routes 4 and 36, a part of the Broadway-Fourth Ave. Rapid Transit railroad in the Borough of Manhattan.

Pier Extension—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr., Docks, Dept. Docks and Ferries, Battery Place, until noon, Nov. 25, for furnishing the labor and materials necessary for extending Pier 43, North River, and depositing rip rap thereat.

Dumping Board—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Commissioner of Street Cleaning, Room 1224, Municipal Bldg., until noon, Nov. 27, for constructing portions of a dumping board and covering the entire dumping board at the foot of East 72d St., Borough of Manhattan.

Steam Asphalt Rollers—New York, N. Y.—(Borough of Manhattan)—(Official)—The following bids were received Nov. 11, by Marcus M. Marks, Borough Pres., for furnishing and delivering five steam asphalt rollers: Kelly, Springfield Co., $6225; Good Roads Machinery Co., $6235; Barber Asphalt Co., $6490; Erie Machine Shops, $6630; Buffalo Steam Roller Co., $10,175. Noted Nov. 5.

✚**Motor Fire Apparatus**—New York, N. Y.—(Borough of Manhattan)—(Official)—Robert Adamson, Fire Comr., has awarded the contract for furnishing the fire department with 18 gasoline propelled tractors to the FRONT DRIVE MOTOR CO., Willow Ave., Hoboken, N. J., at $64,800. Noted Oct. 29 and Nov. 12.

✚★**Jetties**—Asbury Park, N. J.—(Official)—The following bids were received by the Public Grounds Commission for constructing three jetties, 180 ft. each, on the beach at Asbury Park; (a) creosoted pile per lin.ft., (b) reinforced concrete per lin.ft.: H. O. GARDNER, (b) $19 (awarded contract); J. J. Schultheiser, Harrington, N. J., (a) $13.23, (b) $19.50; George Wooley, North Long Branch, N. J., (a) $14; Conger-Duncan Construction Co., 17 Battery Pl., New York, (a) $14.30, (b) $29.70; C. A. Brown, 62 William St., New York, (a) $14.98,

(b) $23; Hennibique Construction Co., 1170 Broadway, New York, (a) $17.63, (b) $40; Spearin & Preston, 90 West St., New York, (a) $27.37, (b) $38.10; the Robbins-Ripley Co., 50 Church St., New York, (a) $35. Noted Oct. 22.

Pig Lead and Lead Pipe—East Orange, N. J.—The Board of Water Commissioners will receive bids, until 8 p.m., Nov. 23, for furnishing pig lead and lead pipe. Specifications are on file at the office of A. A. Reimer, Secy.

Fire Station—Hoboken, N. J.—The Council will receive bids, until Dec. 9, for the construction of a fire station at Jefferson and Second St. James H. Londrigan is City Clk. Noted Oct. 8.

Motor Fire Apparatus—Hoboken, N. J.—The City Council will receive bids for furnishing the fire department with a motor fire truck.

Bathhouse—Newark, N. J.—The Common Council has approved plans and specifications for a bathhouse to be erected on Hamburg Pl. It will be of brick and stone, having a tiled swimming pool, 26x60 ft. The estimated cost is $90,000. James S. Piggot is Arch.

Comfort Station—Scranton, Penn.—The following bids were received, Nov. 5, for the construction of a public comfort station; those received several weeks ago were rejected, being too high: Peter Stipp & Sons, $14,744; F. S. Sykes & Co., $16,200; Reynolds & Ennis, $16,380; Williamson & Richardson, $16,879; Parsons Construction Co., $17,700; Mathias Stipp, $15,864; Hagen Lumber Co., $16,900; James Niland, $15,375; Ludwig T. Stipp, $17,415. Noted Sept. 24 and Oct. 2.

✚Monument—West Chester, Penn.—The County Commissioners have awarded the contract to HARRY L. RAUL, Easton, at $17,500, for the erection of a monument to commemorate the services of those from that county who served in the Civil War.

✚Rip Rap—Wilkes-Barre, Penn.—The City Commissioners have awarded the contract for the rip rapping of the river bank between South and Sheldon St., to the HERRICK CONSTRUCTION CO., at 88c. per sq.yd. for new material and 30c. if stone on the ground is used.

Natatorium—Baltimore, Md.—The city plans to construct a natatorium in Clifton Park. The estimated cost is about $27,000, of which $15,000 is to be furnished by the Bath Commission and the remainder by the Park Board.

Harbor Improvement Bonds—Baltimore, Md.—On Nov. 3 the citizens voted in favor of issuing $1,500,000 in bonds for harbor improvements. Noted Sept. 3 and Oct. 1.

Canal—Cambridge, Md.—(Official)—The proposed canal authorized by the legislature but subject to ratification by the citizens of the county, was defeated at a recent election. James R. Jones is the County Clk. Noted Nov. 12.

Drainage—Salisbury, N. C.—(Official)—Bids will be received, until noon, Nov. 28, by the Board of Drainage Commissioners, Back Creek Drainage District, for the removal of 245,869 cu.yd. of material and other work necessary to drain Back Creek. Estimated cost, $15,366. Bids will also be received at the same time and place by the Commissioners of Kerr Creek Drainage District for the removal of 132,677 cu.yd. material for the draining of Kerr Creek. C. M. Miller, Salisbury, is the Engr. and Supt.

★✚Dredging—Jacksonville, Fla.—According to press reports the Port Commission has awarded the contract for dredging in connection with the new municipal docks, to the HOME DREDGING CO., Mobile, Ala. Noted Aug. 13.

Fire Boat and Motor Apparatus—Cleveland, Ohio—A. Benesch, Dir. Pub. Safety, in his report to the Council, recommends an expenditure of $40,000 for building a fire boat to replace the "Clevelander," $20,000 for new cable and $15,000 for motor tractors.

✚Freight Terminal—Cleveland, Ohio—The Cleveland & Buffalo and the Detroit & Cleveland Navigation Co. have awarded the contract for the construction of freight and passenger terminals, at the foot of East Ninth St., to GEORGE R. COOK, Detroit, Mich. The estimated cost is about $400,000.

River Straightening—Cleveland, Ohio—The citizens of Cuyahoga County voted Nov. 3 to issue $1,500,000 in bonds for straightening Cuyahoga River. W. A. Stinchcomb is in charge of the engineering.

Motor Fire Apparatus—Fostoria, Ohio—(Official)—Bids will be received by L. W. Gibson, Dir., Pub. Safety, until noon, Dec. 8, for furnishing the fire department with motor fire apparatus according to the specifications on file at the Director's office.

✚Dock—Toledo, Ohio—The Cincinnati, Hamilton & Ohio R.R. Co., Toledo, has awarded the contract for the construction of an 800-ft. dock to the SMITH-McCORMICK CO., Easton, Penn., at about $750,000. Noted Oct. 15 and Nov. 12.

✚Mausoleum—Wooster, Ohio—The Republican Mausoleum Co. has awarded the contract for the erection of granite and reinforced concrete mausoleum to T. W. CISSEL, at about $50,000.

Park Work—Chicago, Ill.—On Nov. 3 the citizens of Cook County voted to invest the County Board with the power to expend $1,000,000 yearly for the purchase of natural park land; also power to issue $10,000,000 in bonds for this purpose.

Motor Fire Apparatus—Rhinelander, Wis.—The city contemplates the purchase of motor fire apparatus and with this end in view has appointed a committee to inspect the apparatus in nearby cities. Frederick Anderle is Mayor.

Drain—Clarion, Iowa—(Official)—All bids received on Nov. 12 for the construction of drain No. 90, being unsatisfactory, were rejected. F. E. Osler is County Audr. Noted Nov. 5.

Ditch—Marshall, Minn.—(Official)—All bids received on Nov. 9 for the construction of county ditch No. 13 have been rejected. Bids will again be received about Dec. 7. E. S. Shepard is County Audr. Noted Nov. 5.

Dredge—Kansas City, Kan.—The Directors of the Kaw Valley Drainage District are in the market for a hydraulic dredge to be used for widening and deepening the channel of the Kansas River. P. J. Broll, Kansas City, is Secy.

Drainage—Elsberry, Mo.—The Mississippi River Commission, International Life Bldg., will receive bids, until Nov. for constructing about 225,000 cu.yd. earthwork in Elsberry Drainage District.

Amusement Park—Corpus Christi, Tex.—The Ward Island Development Co., recently organized with a capital stock of $40,000, plans to build an amusement park on Ward Island eight miles from Corpus Christi.

Park and Boulevard—Dallas, Tex.—(Official)—The Dallas Park Board has appointed Myers & Noyes, Consult Engrs., Dallas, to carry out the plans of George Kessler, Landscape Arch., for the development of a park and boulevard system.

Head Gates and Canal Extension—Roberts, Idaho—Bids for the construction of 40 lateral reinforced-concrete head gates and for the extension of the canal, are being received by the Butte & Market Lake Canal Co. William Stibal is Secy.

Dock—Everett, Wash.—The Great Northern Co. has approved the plans for the construction of a dock north of the Oriental Dock on the bay front. The estimated cost is $33,000.

Motor Fire Apparatus—Seattle, Wash.—(Official)—A communication from the Seattle Port Commission states that all bids received, for furnishing the fire department with three combination chemical and hose motor trucks, were rejected. Noted Oct. 22.

✚Canal—Seattle, Wash.—The contract for the construction of a canal between Oak Bay and Port Townsend has been awarded to the PUGET SOUND BRIDGE & DREDGING CO., Seattle, at $51,485.

Waterway—Tacoma, Wash.—The County Commissioners have received a petition from owners of property along the tide flats, asking that a waterway improvement district be formed to dredge a channel, 2½ miles long, on the tide flats, to be known as the Hylebos Creek Waterway. L. A. Nicholson, Engr., has prepared plans for a channel 14 ft. deep at low water, and varying from 300 to 400 ft. in width. The estimated cost is $350,000. Noted July 9 and Oct. 8.

Bathhouse and Natatorium—Alameda, Calif.—The Neptune Surf Beach Co. plans to build a 500-room bathhouse and enclosed natatorium at Alameda. M. H. Owens and W. Edwards are interested.

Jetties, Pile Driving and Ditches—Blythe, Calif.—Bids will be received, until 5 p.m., Nov. 23, by the trustees of the Palo Verde Levee District, Riverside and Imperial Counties, for constructing jetties, pile driving, ditches and other work. Alfred Solano, James Rennie and David Darling are the Trustees.

✚Sheet Metal Work—San Francisco, Calif.—The Board of Public Works has awarded the contract for sheet metal work on the new City Hall to the UNITED STATES SHEET METAL CO., at $66,780.

Fire Station and Apparatus—Venice, Calif.—The City Council contemplates an expenditure of $30,000 for building a fire station and the purchase of apparatus.

Boilers, Stokers and Heaters—St. Malo, Que.—The National Transcontinental Ry., Ottawa, Ont., will receive bids, until Dec. 1, for supplying and installing boilers, stokers, feed water heaters, steam engines or turbines and generators, switchboard and wiring for Leonard Locomotive and Car Shops at St. Malo. W. J. Press, Ottawa, is Mech. Engr.

Fire Station—Oakville, Ont.—The Town Council plans to build a fire station estimated to cost about $10,000. W. E. Crawley is the Town Clk.

Parks and Playgrounds—Toronto, Ont.—The City Council has passed a by-law authorizing the raising and expenditure of $250,000 for purchasing parks and playgrounds.

✚Oil Tanks—Prince Rupert, B. C.—The Imperial Oil Co. has awarded a contract for the construction of five oil tanks to BEERS LTD., Vancouver.

✚Terminals—Winnipeg, B. C.—The Grand Trunk Pacific Ry. Co. has awarded a contract to CARTER, HALL & ALDINGER, Winnipeg, at about $300,000, for the construction of terminals at the four divisional points in British Columbia: Prince George, Endako, Smithers and Pacific.

BUILDINGS

Boston, Mass.—Bids will be received, until Nov. 26, by the City Hospital Department, for additions to the Paine building at Harrison and Massachusetts Ave. A. Shuman is Chn. of the Trustees.

Minor & Kalman, Archs., 42 Tremont St., are preparing plans for a six-story apartment building at 216 Hanover St., for De Steggiano & Forto.

Mattapan (Boston post office), **Mass.**—Bids will be received, until Nov. 25, by the Public Buildings Department, for constructing a police station at Mattapan. Richard A. Lynch, 802 City Hall Annex, is Supt. of Pub. Bldgs.

✚Wellesley, Mass.—The contract for the construction of the group of buildings at Wellesley College, has been awarded to the GEORGE A. FULLER CO., New York and Boston. The estimated cost is $1,000,000. Coolidge & Carlson, Boston, Mass., are the Archs.

Worcester, Mass.—Bids are being received by Peabody & Stearns, Archs., Boston, for constructing a building at the Worcester Academy. The estimated cost is $100,000.

Buffalo, N. Y.—Chas. M. Peabody, 588 Main St., will construct a two-story and basement mercantile building, 56x178 ft., at Allen and Franklin St. The estimated cost is $50,000. Charles E. Mott, Prudential Bldg., is the Arch.

✚★Farmingdale, N. Y.—The general contract for the construction of the three-story brick dormitory at the New York State School of Agriculture has been awarded to FRANK A. SIBERNALER, 61 Dewey Ave., New Rochelle, N. Y. Noted Oct. 15.

Long Beach, N. Y.—Clement Le Brun, Arch., is preparing plans for a four-story, 160x200-ft. sanitarium, at Long Beach, for a syndicate of physicians, headed by F. D. Drake. The estimated cost is $200,000.

New York, N. Y.—(Borough of Manhattan)—Bids will be received about Dec. 10, by Maynicke & Franke, Archs., 25 East 26th St., for the 20-story store and loft building to be constructed at Broadway and 26th St., for the estate of Frederick Ayer, 141 Milk St., Boston, Mass. The estimated cost is $800,000.

+Yonkers, N. Y.—The contract for the construction of the Grand Theater on South Broadway has been awarded to GEORGE T. KELLEY, Yonkers. The estimated cost is $300,000. Noted Oct. 29.

+Bloomfield, N. J.—The general contract for the construction of the two-story brick school on Grove St., for the Board of Education, has been awarded to A. P. CLARK CO., 264 Claremont Ave., Montclair, N. J. Noted Oct. 22.

Newark, N. J.—The T. B. Peddie Estate plans to construct a mercantile building at 128 Market St. It will be four stories and basement, 125x40 ft. Estimated cost about $58,000. Bruce B. Kitchell, 207 Market St., Newark, is Arch.

Swedesboro, N. J.—The First National Bank of Swedesboro plans to construct a building to cost $40,000.

+Upper Montclair, N. J.—The general contract for the construction of the three-story Edward Russ Memorial Hall, at the State Normal School, has been awarded to FRED KILGUS, 13 South Sixth St., Newark, N. J. Noted Oct. 1.

+Pittsburgh, Penn.—(Official)—The contract for constructing the Schenley High School has been awarded to L. L. STUART, Pittsburgh, at $741,100. Bids were received Nov. 3, and other bidders were: Thomas Reilly Co., Pittsburgh, $681,226; John H. Parker Co., New York, $701,505; George A. Fuller Co., $704,390; Henry Shenk Co., Pittsburgh, Penn., $706,183; James G. Doak, Philadelphia, Penn., $716,313; W. F. Trimble & Sons Co., Pittsburgh, $721,797; George Hogg Co., Pittsburgh, $722,125; Thompson Starrett Co., Pittsburgh, $733,325; Golden & Crick, Pittsburgh, Penn., $779,540; William Dall, Cleveland, Ohio, $805,300; Marble Arch Co., New York, $857,757. Noted Oct. 22.

Wilkes-Barre, Penn.—Sturdevant & Poggi, Archs., Coal Exchange Bldg., have prepared plans for the five-story Masonic Temple to be erected at Wilkes-Barre. The estimated cost is $75,000.

Newport News, Va.—The lowest bid received for the construction of the General and Nonsectarian Hospital was submitted by J. W. Davis, Newport News, at $30,402. Donald McKee, Newport News, is Arch.

Norfolk, Va.—Plans have been completed by C. M. Major, Arch., Norfolk, for the building to be built for the Fraternal Order of Eagles.

Charleston, W. Va.—H. Rus Warne & David Dick, Archs., are preparing plans for remodeling and additions to the Masonic Temple. The estimated cost is $50,000.

+Wheeling, W. Va.—The contract for the construction of the hotel on the Orpheum Theatre site has been awarded to the GATES BUILDING CO., Wheeling. The estimated cost is $65,000.

Clearwater, Fla.—Bids will be received, until Nov. 23, by the Pinellas County Commissioners, for additions and alterations to the county jail. Willis R. Biggers, Tampa, Fla., is Arch. Noted Nov. 5.

+Jacksonville, Fla.—The Southern Investment & Amusement Co. has awarded the contract for the construction of a theater on Adams St. to the JACKSONVILLE CONTRACTING CO., Jacksonville. The estimated cost is $60,000.

+West Palm Beach, Fla.—The contract awarded to E. P. MAULE, for the construction of the courthouse at West Palm Beach, has been rescinded by the Pinellas County Commissioners. Noted Oct. 29.

Lexington, Ky.—The Board of Trustees of the Transylvania University contemplates constructing a dormitory. The estimated cost is $[illegible]0,000.

Cincinnati, Ohio—Plans are being prepared by Elzner & Anderson, Archs., for the construction of a Y. M. C. A. building on West Ninth St. Estimated cost, $100,000.

Cleveland, Ohio—The Euclid Logan Co. is planning the construction of a seven-story fireproof apartment at East 97th St. and Euclid Ave. Estimated cost, $90,000. W. B. Davis is Pres.

Cleveland, Ohio—R. M. Hulett Co., Archs., 474 Lennox Bldg., have prepared plans for the construction of a three-story, 70x120-ft., clubhouse, at 3143-51 West 25th St., for the German Club. Estimated cost $35,000. Noted Aug. 27.

Cleveland, Ohio—Bids will be received until 1 p.m., Dec. 7, by the Clerk of the Board of Education, East Sixth St., Cleveland, for the alterations and additions to the Central High School on East 55th St., near Cedar Ave. Frank G. Hogen is the Dir. of Schools.

+Hudson, Ohio—The contract for the construction of a school has been awarded to RODERICK D. GRANT. Estimated cost, $43,535. Noted Oct. 8 and 22.

Lakewood, Ohio—Charles W. Hopkinson, Arch., Rose Bldg., Cleveland, is preparing plans for the construction of four public schools, estimated to cost, $160,000.

+Warren, Ohio—The contract for the construction of the six-story building, for the Western Reserve National Bank, has been awarded to GEORGE A. FULLER CO., 40 Taylor Arcade, Cleveland. Noted Sept. 24.

Fair Oaks, Ind.—F. L. Kronenberg, Arch., Madison, Wis., is preparing plans for the construction of the two-story and basement, 80x166 ft., Elmside grade school.

+Terre Haute, Ind.—The contract for the construction of a normal school has been awarded to the BEDFORD STONE & CONSTRUCTION CO., Indianapolis. Noted Aug. 6, Sept. 3, Oct. 1 and 22.

+Michigamme, Mich.—The contract for the construction of a school and boiler house has been awarded to J. S. WALHMAN by the Board of Education. Estimated cost, $40,000.

Ypsilanti, Mich.—Bids will soon be received by the Board of Education, Ypsilanti, for the construction of the $110,000 high school. Noted Sept. 3.

Chicago, Ill.—Murray Wolbach, 105 South Dearborn St., plans the construction of a number of apartment buildings, estimated to cost $1,100,000.

Fall River, Wis.—Bids are being received by Viola Hains, Clk. School Bd., for the construction of a school building. Chandler & Park, 400 Main St., Racine, are the Archs.

La Crosse, Wis.—The State Board of Normal Regents, Madison, contemplates constructing a $75,000, physical training building at the State Normal School. Estimated cost, $75,000.

Ladysmith, Wis.—Plans have been prepared for the construction of a three-story and basement, 60x110-ft. hospital, for the Mantellate Sisters, O. S. M.

Madison, Wis.—Plans are being prepared by Claude & Starck, Archs., Badger Annex, for the construction of the Lincoln grade school. Estimated cost, $100,000.

Milwaukee, Wis.—The lowest bids submitted for the construction of the school at 49th and Elm St. were as follows: Walter Buchholz, masonry, $20,575; Wierdsma & Laatsch, carpentry, $15,341; Paul Riesen & Co., excavating and concrete, $12,381; Erdman & Meyer, stone, $5373; Grant Marble Co., marble, $2492; Milwaukee Structural Steel Co., steel, $1888; Mueller Co., heating, $9470; National Heat Regulator Co., heat regulation, $1043; R. Jeske, sheet metal.

+Minneapolis, Minn.—The contract for the construction of the two-story and basement 126x173-ft. grade school has been awarded to J. E. PILGRAM, Minneapolis. Noted Dec. 25, 1913, and Nov. 5.

+Kansas City, Mo.—The contract for the construction of a 100x133-ft. building at Troost Ave. and 38th St., for the First English Lutheran Church, has been awarded to CHARLES W. LOVETT. Estimated cost, $40,000.

Fort Worth, Tex.—The Commissioner's Court of Tarrant County, contemplates constructing a jail at Fort Worth, to cost about, $150,000.

Nezperce, Idaho—Hyslop & Westcott, Spokane, Wash., have prepared plans for the construction of a four-story fireproof hotel to cost $100,000.

Pocatello, Idaho—G. S. Allen and H. E. Bartlett are contemplating the construction of a hotel to cost $120,000.

Grand Canyon, Ariz.—The Atchison, Topeka & Santa Fé Ry. is preparing plans for the construction of a hotel at Grand Canyon, to cost about $65,000.

Seattle, Wash.—Plans are being prepared by Howells & Stokes, Archs., Henry Bldg., for the construction of a four-story, reinforced-concrete office and store building for P. S. Foust. The estimated cost is $200,000.

+Portland, Ore.—BOYAJOHN-ARNOLD Co. has been awarded the contract for the construction of the Couch School, at an estimated cost of $119,584. The heating contract was awarded to W. W. COX, at $26,038. Noted Oct. 15.

+Decoto, Calif.—The contract for the construction of dormitories for the California Masonic Home has been awarded to THOMAS H. DAY'S SONS, San Francisco. Estimated cost, $34,787.

Dixon, Calif.—The Board of Education plans the construction of a $53,000 high school at Dixon. D. H. White, Fairfield, Calif., is the Supt. of Schools of Solano County.

Eagle Rock (Glendale post office), **Calif.**—H. A. Reeves, Arch., Chamber of Commerce Bldg., Los Angeles, is preparing plans for the construction of a fireproof school at Eagle Rock. Estimated cost, $60,000.

Los Angeles, Calif.—The Trustees of the Cienaga School District are contemplating the construction of a $60,000 school. H. G. Marxmiller, 411 Grant Bldg., is interested.

Oakland, Calif.—A. F. White, Portland, Ore., contemplates constructing an office building on Franklin St., to cost $125,000.

Petaluma, Calif.—Brainerd Jones, Arch., is preparing plans for the construction of a school at Fair and Douglass St. for the Petaluma School District. Estimated cost, $100,000.

San Francisco, Calif.—Plans are being prepared by William Beasley, Arch., for the construction of a three-story and basement theater and store building on Fourth and Market St. Estimated cost, $200,000.

San Francisco, Calif.—Henry C. Smith, Arch., is preparing plans for the construction of a reinforced-concrete apartment house at Taylor and Greene St. Estimated cost, $60,000.

San Francisco, Calif.—J. R. Hanify contemplates constructing a theater and store building at Eddy and Fillmore St., at an estimated cost of $70,000. Reid Bros., Sutter and Montgomery St., are the Archs.

+San Francisco, Calif.—The contract for the construction of a one-story brick and steel building for the Third Church of Christ Scientist, has been awarded to ARTHUR ARLETT, Sheldon Bldg. The estimated cost is $80,00.

Woodland, Calif.—Plans are being prepared by W. H. Weeks, Arch., 75 Post St., San Francisco, for the construction of a grammar school. Estimated cost, $100,000.

Montreal, Que.—Bids will be received until Jan. 15, 1915, by Gauthier & Daoust, Archs., 180 St. James St., Montreal for the construction of a building for the Deaf and Dumb Insitution at St. Laurent, Montreal, Que.

Ottawa, Ont.—Plans are being prepared by C. Bordeur, Arch., Quebec, Que., for the construction of a $156,000 church on Wellington and Fairmont St., for the Capuchin Fathers.

Toronto, Ont.—The Board of Education contemplates constructing a three-story, brick school on Euclid Ave., near Fallis St. Estimated cost, $55,800.

+British Columbia, Can.—The contract for the construction of four terminals for the Grand Trunk Pacific Ry. Co., Winnipeg, Man., at Prince George, Endako, Smithers and Pacific, has been awarded to CARTER, HALL AND ALDINGER, Winnipeg, Man. Estimated cost, $300,000.

Contracts to Be Let

Bids received until Dec. 1, 1914.

New County Building

FOR NEW CASTLE COUNTY AND NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commission in the Church Building, at the corner of Market and Tenth Sts., in the City of Wilmington, Delaware, up to 11 o'clock A.M. (Eastern time) on the first day of December, 1914, for the Interior Marble, for the Interior Cut Stone, for the Bronze Work, for the Miscellaneous and Ornamental Iron, for the Painting and Finishing, for the Hollow Metal Doors, for the Finished Hardware, for the Brick Paving, for the Sidewalks, and for the Revolving Doors, entering into the construction and completion of the new County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King Street and French Street and between Tenth Street and Eleventh Street, in the City of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings, for each department or class of work above listed.

Each proposal for Interior Marble shall be accompanied by a certified check or cash deposit in the amount of Four Hundred Dollars ($400).

Each proposal for Interior Cut Stone shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars ($300).

Each proposal for Bronze Work shall be accompanied by a certified check or cash deposit in the amount of Six Hundred Dollars ($600).

Each proposal for Misc. and Ornamental Iron shall be accompanied by a certified check or cash deposit in the amount of Five Hundred Dollars ($500).

Each proposal for Painting and Finishing shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars ($300).

Each proposal for Hollow Metal Doors shall be accompanied by a certified check or cash deposit in the amount of Eight Hundred Dollars ($800).

Each proposal for Finished Hardware shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Brick Paving shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Sidewalks shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Revolving Doors shall be accompanied by a certified check or cash deposit in the amount of One Hundred Dollars ($100).

The Commission to reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty per cent. (50%) of the amount of the contract.

On and after November 17, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of Fifty Dollars ($50) this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before December 15, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY,
Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

Bids received until Dec. 2, 1914.

Reinforced Concrete Tunnel Lining

Baltimore, Md.

Sealed bids or proposals endorsed "Bid for the construction of a reinforced concrete lining in Gunpowder Tunnel, improvement of Gunpowder Supply, Contract No. 37," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 A.M. Wednesday, December 2nd, 1914, for lining with eight (8) inches of reinforced concrete about 2000 lin.ft. of aqueduct tunnel, 12 eet in present diameter, with appurtenant valves, fittings, etc., between Loch Raven and Lake Montebello, Baltimore, Md.

Plans and specifications may be obtained at the office of the Water Engineer, City Hall, Baltimore, Md., on and after Wednesday, November 16th, 1914. A charge of Five Dollars ($5.00) will be made for each set of plans and specifications. This amount will be refunded on their return on or before December 15th, 1914, in good condition. Specifications used in making a bid will be considered as returned.

A certified check on a Clearing House Bank made payable to the Mayor and City Council of Baltimore for the sum of Three thousand dollars ($3000.00) will be required with each bid.

Approximate quantities are as follows:

Excavation for vault and steel sections	285 cu.yds.
Furnishing & Placing steel bends, straight & tapered pipe	22½ tons
Placing 60-inch gate valve and cast iron pipe	
1 : 2 : 4 Concrete in vault walls and around pipe	325 cu.yds.
Furnishing & Placing 3" dia. vault drain	24 lin.ft.
Furnishing & Placing reinforcing steel channel ladders	3387 lbs.
Gunite lining in bends straight and tapered pipe	1502 sq.ft.
(Alternate) Bitumastic Enamel Lining	1502 sq.ft.
Furnishing & Placing 1" pipe for sub-drain	150 lin.ft.
Furnishing & Placing 1½" pipe for sub-drain	20 lin.ft.
Furnishing & Placing 3" pipe for sub-drain	100 lin.ft.
Furnishing & Placing 4" pipe for sub-drain	50 lin.ft.
Furnishing & Placing 6" pipe for sub-drain	50 lin.ft.
Excavating for furnishing & placing 2" sub-drain.	200 lin.ft.
Excavating for furnishing & placing 8" sub-drain.	520 lin.ft.
Excavating for furnishing & placing 10" sub-drain	100 lin.ft.
Excavating for furnishing & placing 12" sub-drain	390 lin.ft.
Excavating for furnishing & placing 16" sub-drain	520 lin.ft.
Furnishing & Placing 8"x8"x3" to 4" C.I. Tees for sub-drains	
Furnishing & Placing 10"x10"x4" to 6" C.I. Tees for sub-drains	
Furnishing & Placing 12"x12"x4" to 6" C.I. Tees for sub-drains	
Furnishing & Placing 16"x16"x4" to 6" C.I. Tees for sub-drains	
Furnishing & Placing ⅛" and ½" Gate Valve	
Alternate—Furnishing & Placing Drainage System	1730 lin.ft.
Lining Shafts	60 lin.ft.
Reinforced concrete lining	2000 lin.ft.
Alternate—Reinforced Concrete Pipe	2000 lin.ft.
Repairing roadway (Macadam)	335 sq.yds.

The successful bidder will be required to give bond and comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

Approved November 11, 1914.

JOHN HUBERT,
Acting Pres. Board of Awards.
ROBT. L. CLEMMITT,
Acting Water Engineer.
EZRA B. WHITMAN,
Consulting Engineer.

EXECUTIVE OFFICE, ARLINGTON MEMORIAL AMPHITHEATER COMMISSION, 1729 New York Avenue, Washington, D. C., November 6, 1914.—Sealed proposals for the erection of a memorial amphitheater and chapel in the Arlington National Cemetery, Va., will be received here until 11 o'clock a.m. Monday, December 7, 1914, and then publicly opened. Information upon application. WM. W. HARTS, Colonel, U. S. A., Executive Officer.